

Dr. 12A - Bk. 14

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Plan _____ Survey

_____ HOWARD AVENUE _____

From _____ Co. Rd. "A" _____ To _____ Holloway St. _____

Road Acc't. No. _____

Date Filed _____ July 1936 _____

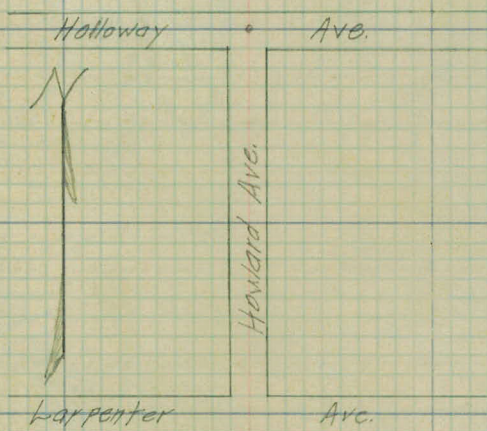
File _____ Dr. 12A Bk. 14 _____

W. P. A.

Plan Survey

Howard Ave.

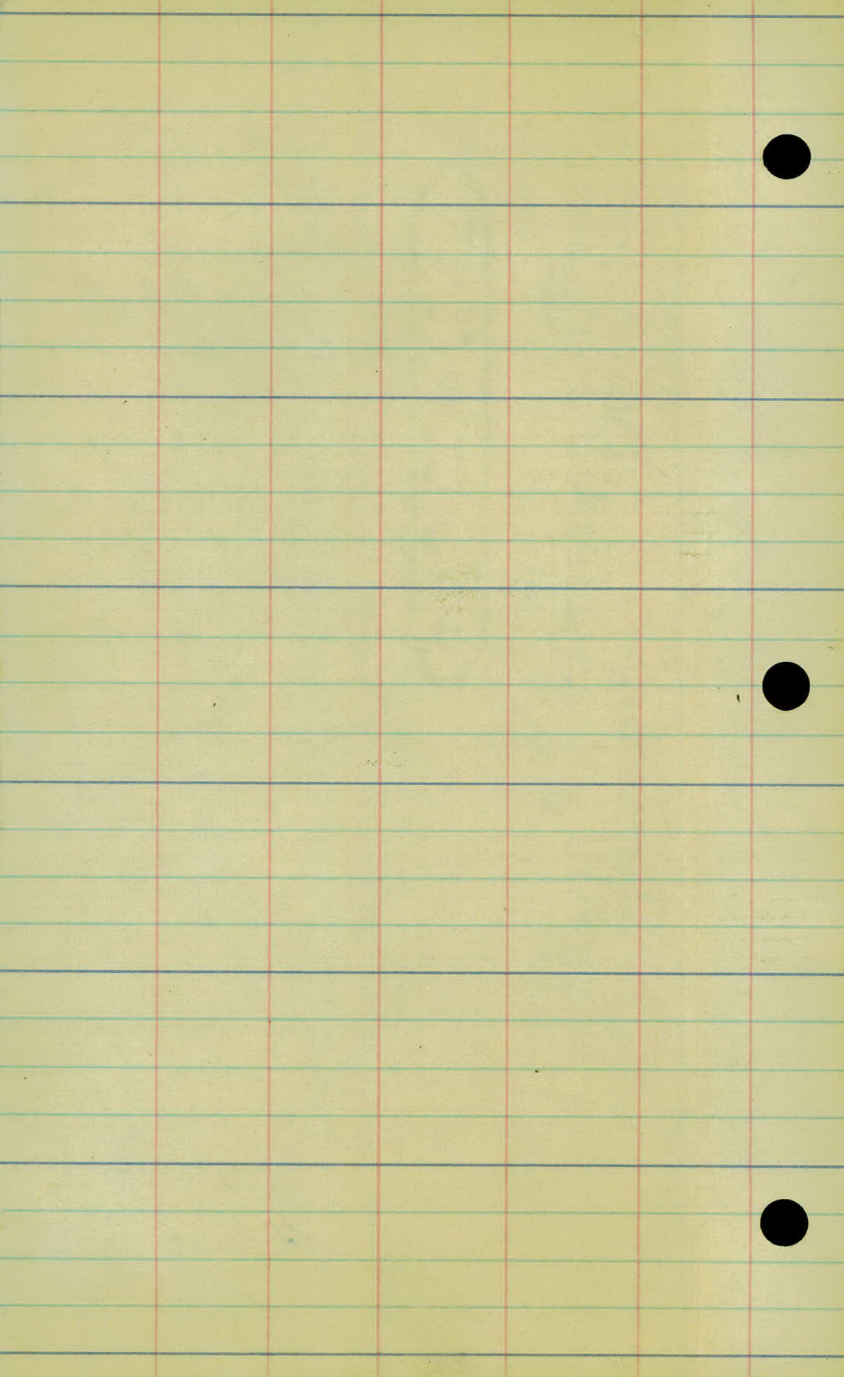
Larpenster Ave to Holloway St.



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alignment.
Topography
Cross Sections

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Alignment

26+35.14

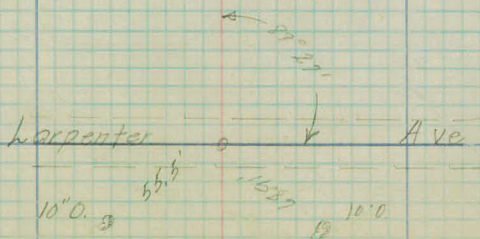
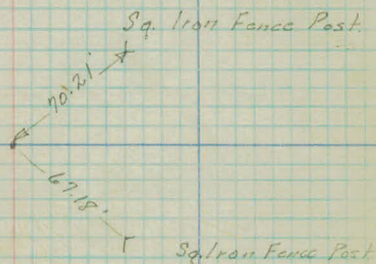
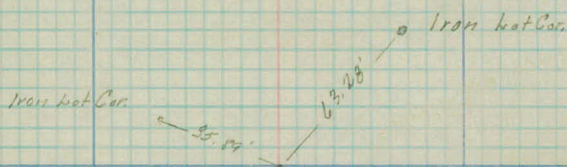
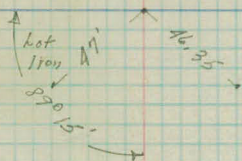
E Holloway St.

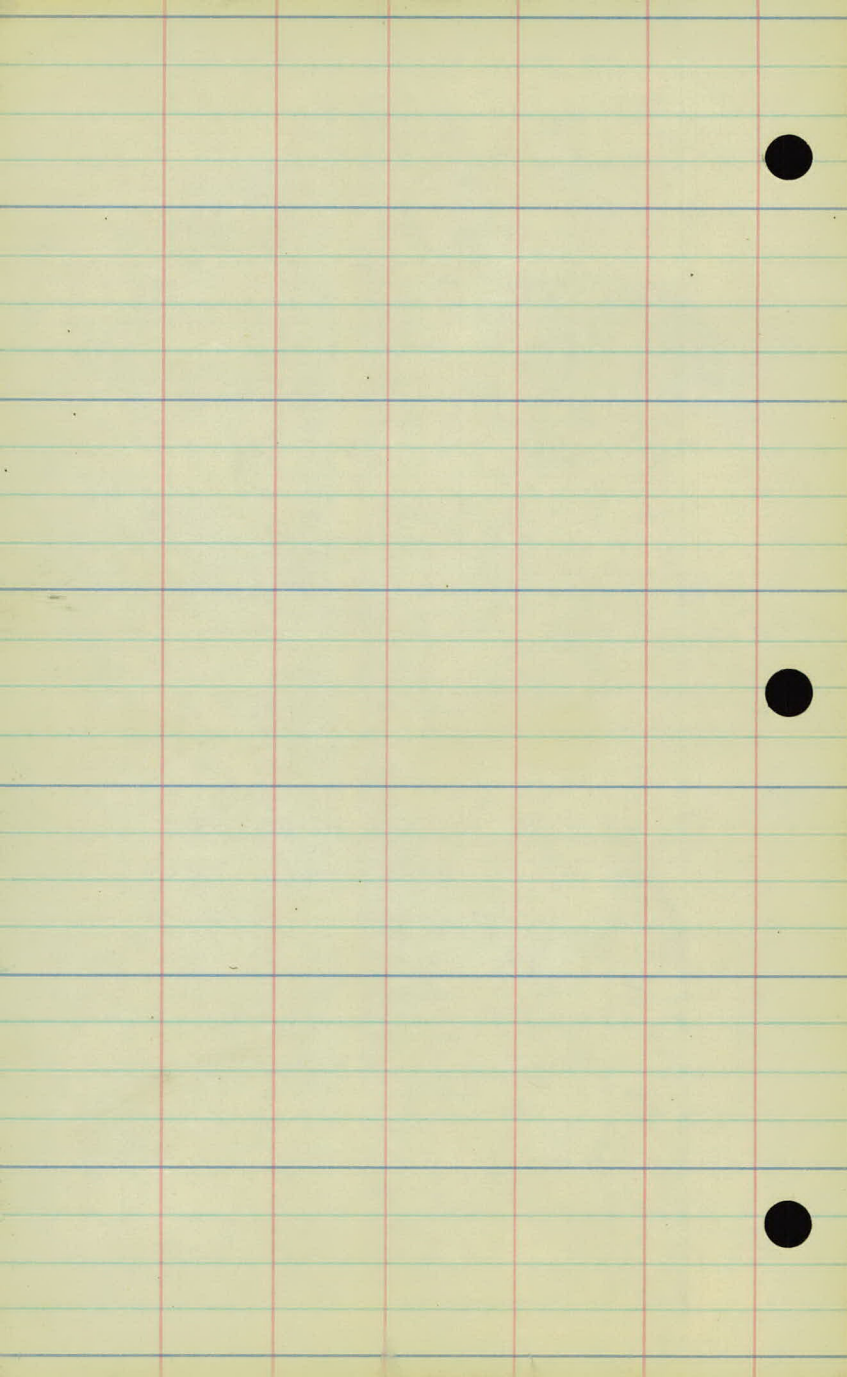
16+74.47 P.O.T.

11+65.24 P.O.T.

0+00

E Carpenter Ave @ 73+12.7





Topography

5+00

4+00

+16 R. GULV 15" X 24" Drain Ditch Culv 12' R+L+H.

3+00

2+00

1+00

0+00

+89 Ent.

5

+26 Ent.

Rd 7'

Rd 10'

+65 N.E. Cor. Ho. 72'

+55 P.P. 23'



+18 Ent. 12" X 16' C.M. Cul. 11'

Rd 6'

+98 Ent. 12" X 16' C.M. Cul. 11'

+90 N.E. Cor. Ho. 72'



+69-18" Oak 16'

+30-18" O 34'

+95 Ent. 12" X 16' C.M. Cul. 14'

Rd 11'

Rd 7'

Rd 8'

+59-20" O 26'

Rd 10'

Rd 9'

+65-P.P. 29'

+61-16" Stump 32'

+50-12" T. Stump 21'

+42-12" O 31'

Rd 10'

Rd 9'

+89 16" O 34'

+33 Rd 10'

+09 Edge Tack 10'

+44-12" O 31'
+41-8" O 31'
Rd 10'

Larpenner Ave.

12+00

11+00

10+00

9+00

8+00

7+00

6+00

Rd. 12'

Rd 11' 6

+86 F.C. 33'

Rd 8'

Fe. 32' Rd 8'

Rd 2'

Rd 12'

+49 F.C. 33'

Rd. 4'

Rd 10'

+19-12" T. Stump 30'
+77-20" Stump 21'

+40-P.P. 24'

+62-Ent. 12'X16' C.M. Culv
13'

Rd 6'

Rd 7'

+70 Ent Rd Width

+85 Ent.

+59 N.E. Cor. Ho. 73'

15' 24'

+53-12" Stump 33'
+18-16" Oak 27'
Rd. 10'

Rd. 10'

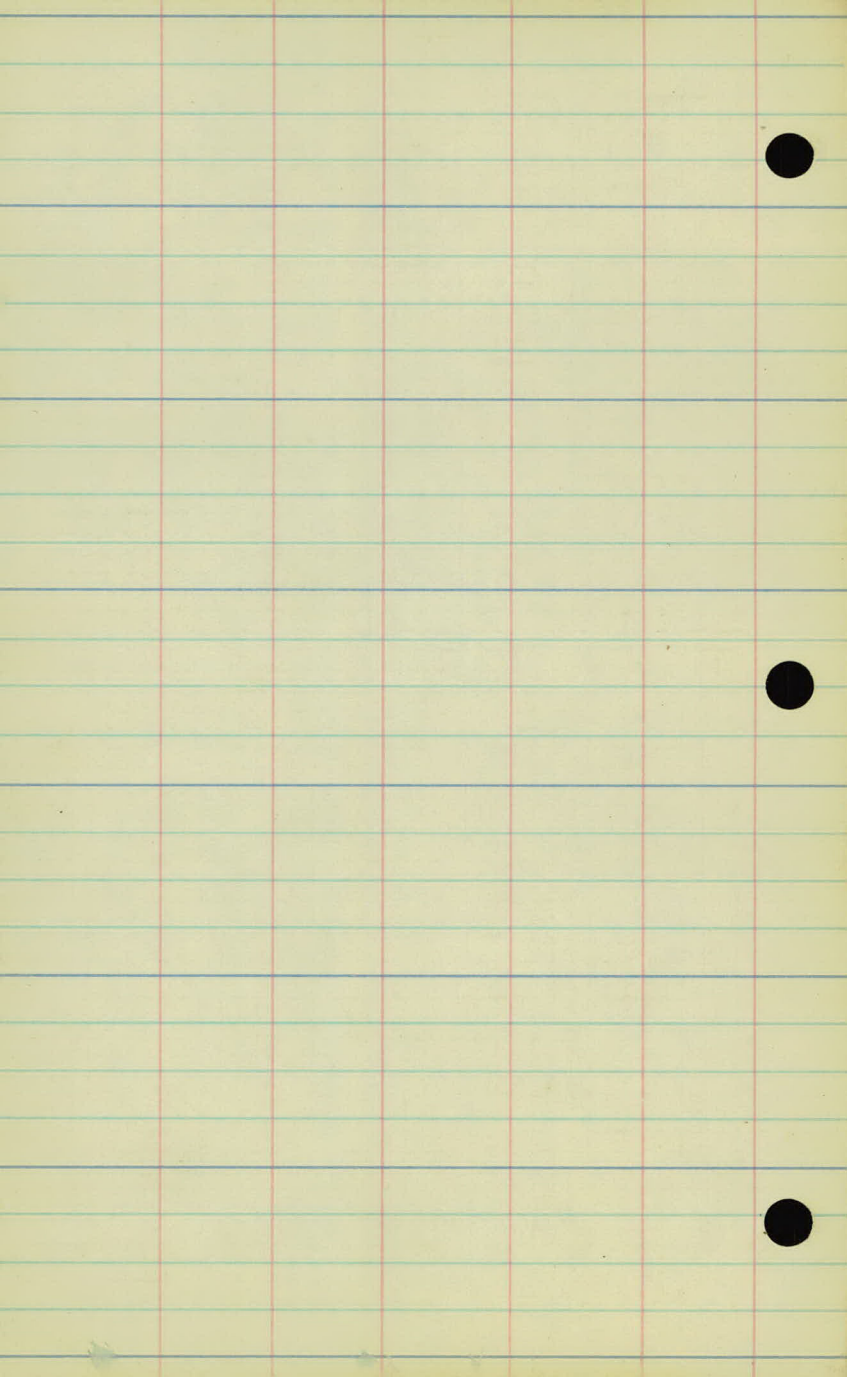
+75-P.P. 24'
+65-20' Oak 27'

Rd. 10'

Rd. 8'

Rd. 10' P.P. 24'

Rd 10'



X. Sections
Howard Ave.

Sta.	+	H.I.	-	Elev.
B. M.	0.11	1026.03 [✓]		1025.92
0+00				24.3
+09				24.0
+18				23.8
+60				22.8
1+00				22.0
+30				21.6
+75				20.9
2+00				20.5
+50				19.4
3+00				18.4
+14		Bottom	Drain Ditch	
+35				18.3
4+00				20.1

Spk. 17 Tel. Pole Sta - 0420

$$\frac{1.4}{500}$$

$$1.7$$

$$\frac{1.7}{50}$$

$$\frac{1.8}{500}$$

$$2.0$$

$$\frac{2.1}{500}$$

$$\frac{3.6}{330} \quad \frac{3.8}{190} \quad \frac{3.9}{120} \quad 2.2 \quad \frac{2.8}{120} \quad \frac{3.2}{150} \quad \frac{3.4}{170} \quad \frac{3.6}{330}$$

$$\frac{4.0}{330} \quad \frac{4.1}{170} \quad \frac{5.2}{140} \quad \frac{3.7}{100} \quad 3.2 \quad \frac{3.7}{50} \quad \frac{5.1}{130} \quad \frac{4.6}{180} \quad \frac{4.9}{330}$$

$$\frac{4.7}{320} \quad \frac{5.0}{160} \quad \frac{5.6}{130} \quad \frac{4.2}{100} \quad 4.0 \quad \frac{4.4}{70} \quad \frac{6.9}{120} \quad \frac{6.3}{180} \quad \frac{6.6}{330}$$

$$\frac{5.0}{320} \quad \frac{5.0}{270} \quad \frac{5.6}{150} \quad \frac{6.2}{130} \quad \frac{4.9}{100} \quad 4.4 \quad \frac{5.0}{70} \quad \frac{7.7}{130} \quad \frac{7.5}{330}$$

$$\frac{3.1}{33} \quad \frac{4.6}{270} \quad \frac{5.7}{190} \quad \frac{5.7}{160} \quad \frac{5.6}{140} \quad \frac{5.3}{100} \quad 5.1 \quad \frac{5.6}{80} \quad \frac{7.5}{120} \quad \frac{7.3}{160} \quad \frac{7.5}{330}$$

$$\frac{3.3}{330} \quad \frac{4.5}{260} \quad \frac{6.3}{210} \quad \frac{6.3}{150} \quad \frac{7.2}{140} \quad \frac{6.0}{90} \quad 5.5 \quad \frac{6.1}{70} \quad \frac{8.0}{120} \quad \frac{7.3}{140} \quad \frac{7.3}{330}$$

$$\frac{8.6}{330} \quad \frac{8.4}{160} \quad \frac{8.7}{140} \quad \frac{8.9}{11} \quad \frac{7.2}{80} \quad 6.6 \quad \frac{7.2}{80} \quad \frac{8.9}{12} \quad \frac{8.9}{130} \quad \frac{8.4}{140} \quad \frac{7.9}{330}$$

$$\frac{9.7}{330} \quad \frac{9.7}{13} \quad \frac{9.9}{14} \quad \frac{9.9}{100} \quad \frac{8.0}{60} \quad 7.5 \quad \frac{7.2}{70} \quad \frac{10.5}{120} \quad \frac{10.0}{130} \quad \frac{9.6}{330}$$

$$\frac{120}{50}$$

$$\frac{11.9}{200}$$

$$\frac{11.9}{20}$$

$$\frac{11.6}{500}$$

$$\frac{10.0}{330} \quad \frac{10.6}{120} \quad \frac{8.1}{60} \quad 7.7 \quad \frac{7.9}{80} \quad \frac{10.7}{140} \quad \frac{10.4}{330}$$

$$\frac{7.5}{330} \quad \frac{7.7}{100} \quad \frac{6.1}{60} \quad 5.9 \quad \frac{6.1}{100} \quad \frac{6.8}{140} \quad \frac{7.1}{330}$$

T.P. 10.21 1029.28 ✓ 6.96 1019.97 ✓
 10.26.03 ✓

4 +30 21.7

+70 23.6

5+00 24.7

+50 25.1

6+00 24.2

+50 22.6

7+00 20.7

+50 19.8

8+00 19.3

T.P. 11.17 1027.77 ✓ 12.68 ✓ 1016.60 ✓
 +50 17.7

9+00 16.2

+50 16.6

10+00 18.6

$$\frac{82}{330} \quad \frac{82}{130} \quad \frac{88}{90} \quad \frac{80}{60} \quad 76 \quad \frac{80}{40} \quad \frac{88}{150} \quad \frac{77}{110} \quad \frac{66}{330}$$

$$\frac{28}{330} \quad \frac{20}{26} \quad \frac{39}{22} \quad \frac{35}{130} \quad \frac{64}{100} \quad \frac{61}{60} \quad 57 \quad \frac{58}{90} \quad \frac{64}{150} \quad \frac{36}{16} \quad \frac{23}{26} \quad \frac{25}{330}$$

$$\frac{13}{33} \quad \frac{18}{270} \quad \frac{30}{14} \quad \frac{54}{11} \quad \frac{48}{40} \quad 46 \quad \frac{48}{90} \quad \frac{52}{140} \quad \frac{26}{160} \quad \frac{24}{27} \quad \frac{26}{330}$$

$$\frac{28}{33} \quad \frac{35}{15} \quad \frac{46}{11} \quad 42 \quad \frac{45}{10} \quad \frac{48}{15} \quad \frac{33}{19} \quad \frac{98}{330}$$

$$\frac{42}{330} \quad \frac{36}{160} \quad \frac{59}{180} \quad \frac{55}{10} \quad 51 \quad \frac{55}{110} \quad \frac{59}{140} \quad \frac{52}{60} \quad \frac{67}{330}$$

88

$$\frac{48}{33} \quad \frac{48}{190} \quad \frac{80}{150} \quad \frac{74}{9} \quad 67 \quad \frac{71}{110} \quad \frac{82}{170} \quad \frac{74}{180} \quad \frac{86}{330}$$

$$\frac{70}{330} \quad \frac{90}{150} \quad \frac{102}{170} \quad \frac{73}{70} \quad 86 \quad \frac{89}{80} \quad \frac{114}{160} \quad \frac{114}{180} \quad \frac{118}{330}$$

$$\frac{11.3}{330} \quad \frac{11.7}{190} \quad \frac{120}{170} \quad \frac{120}{150} \quad \frac{10.3}{90} \quad 95 \quad \frac{100}{110} \quad \frac{122}{190} \quad \frac{11.7}{300} \quad \frac{11.7}{330}$$

$$\frac{11.8}{330} \quad \frac{11.8}{200} \quad \frac{12.3}{18} \quad \frac{12.3}{15} \quad \frac{10.7}{90} \quad 100 \quad \frac{10.2}{110} \quad \frac{11.0}{16} \quad \frac{11.0}{21} \quad \frac{10.6}{230} \quad \frac{11.3}{330}$$

$$\frac{11.5}{37} \quad \frac{11.4}{19} \quad \frac{11.7}{15} \quad \frac{10.7}{10} \quad 10.1 \quad \frac{10.2}{13} \quad \frac{11.1}{19} \quad \frac{11.1}{23} \quad \frac{11.2}{33}$$

$$\frac{12.5}{33} \quad \frac{13.7}{26} \quad \frac{13.3}{9} \quad \frac{11.9}{8} \quad 11.6 \quad \frac{12.0}{7} \quad \frac{13.1}{10} \quad \frac{13.5}{33}$$

$$\frac{14.4}{33} \quad \frac{13.4}{8} \quad \frac{11.5}{4} \quad 11.2 \quad \frac{11.3}{8} \quad \frac{12.7}{12} \quad \frac{12.0}{33}$$

$$\frac{11.7}{33} \quad \frac{10.0}{7} \quad \frac{9.5}{4} \quad 9.2 \quad \frac{9.4}{9} \quad \frac{10.0}{13} \quad \frac{7.5}{16} \quad \frac{5.5}{33}$$

✓
1027.77

10 + 45

21.9

11 + 00

23.8

+ 65

25.1

12 + 00

23.8

+ 50

22.5

13 + 0.0

21.1

B.M.

3.26

✓
1023.19

7.84

✓
1019.93

+ 20

20.7

14 + 00

19.0

+ 50

18.4

15

17.9

+ 50

17.9

16

18.3

+ 65

19.8

$$\begin{array}{r} 8.9 \\ 33 \end{array} \quad \begin{array}{r} 7.2 \\ 21 \end{array} \quad \begin{array}{r} 5.3 \\ 8 \end{array} \quad \begin{array}{r} 6.4 \\ 6 \end{array} \quad 5.9 \quad \begin{array}{r} 5.9 \\ 8 \end{array} \quad \begin{array}{r} 6.3 \\ 13 \end{array} \quad \begin{array}{r} 2.6 \\ 16 \end{array} \quad \begin{array}{r} 1.2 \\ 33 \end{array}$$

$$\begin{array}{r} 6.8 \\ 33 \end{array} \quad \begin{array}{r} 5.2 \\ 17 \end{array} \quad \begin{array}{r} 3.8 \\ 4 \end{array} \quad \begin{array}{r} 4.2 \\ 2 \end{array} \quad 4.0 \quad \begin{array}{r} 3.3 \\ 13 \end{array} \quad \begin{array}{r} 3.4 \\ 16 \end{array} \quad \begin{array}{r} 2.0 \\ 19 \end{array} \quad \begin{array}{r} 1.3 \\ 33 \end{array}$$

$$\begin{array}{r} 3.2 \\ 33 \end{array} \quad \begin{array}{r} 3.3 \\ 11 \end{array} \quad \begin{array}{r} 2.9 \\ 3 \end{array} \quad 2.7 \quad \begin{array}{r} 2.8 \\ 8 \end{array} \quad \begin{array}{r} 3.2 \\ 12 \end{array} \quad \begin{array}{r} 2.7 \\ 14 \end{array} \quad \begin{array}{r} 2.6 \\ 33 \end{array}$$

$$\begin{array}{r} 4.2 \\ 33 \end{array} \quad \begin{array}{r} 4.3 \\ 14 \end{array} \quad \begin{array}{r} 4.6 \\ 12 \end{array} \quad \begin{array}{r} 4.2 \\ 6 \end{array} \quad 4.0 \quad \begin{array}{r} 4.1 \\ 7 \end{array} \quad \begin{array}{r} 4.4 \\ 13 \end{array} \quad \begin{array}{r} 4.1 \\ 15 \end{array} \quad \begin{array}{r} 3.8 \\ 33 \end{array}$$

$$\begin{array}{r} 5.8 \\ 33 \end{array} \quad \begin{array}{r} 5.7 \\ 15 \end{array} \quad \begin{array}{r} 6.0 \\ 14 \end{array} \quad \begin{array}{r} 5.6 \\ 8 \end{array} \quad 5.3 \quad \begin{array}{r} 5.5 \\ 6 \end{array} \quad \begin{array}{r} 5.9 \\ 12 \end{array} \quad \begin{array}{r} 5.5 \\ 14 \end{array} \quad \begin{array}{r} 5.5 \\ 33 \end{array}$$

$$\begin{array}{r} 6.9 \\ 33 \end{array} \quad \begin{array}{r} 7.1 \\ 13 \end{array} \quad \begin{array}{r} 6.9 \\ 9 \end{array} \quad 6.7 \quad \begin{array}{r} 7.0 \\ 7 \end{array} \quad \begin{array}{r} 7.1 \\ 12 \end{array} \quad \begin{array}{r} 7.1 \\ 33 \end{array}$$

N.W. Cor. 1st Iron

Ripley St

$$\begin{array}{r} 2.4 \\ 33 \end{array} \quad \begin{array}{r} 2.6 \\ 13 \end{array}$$

$$2.5 \quad \begin{array}{r} 2.8 \\ 11 \end{array} \quad \begin{array}{r} 2.9 \\ 33 \end{array}$$

$$\begin{array}{r} 3.8 \\ 33 \end{array} \quad \begin{array}{r} 4.1 \\ 15 \end{array} \quad \begin{array}{r} 4.5 \\ 12 \end{array} \quad \begin{array}{r} 4.2 \\ 9 \end{array} \quad 4.2 \quad \begin{array}{r} 4.9 \\ 12 \end{array} \quad \begin{array}{r} 4.5 \\ 14 \end{array} \quad \begin{array}{r} 4.7 \\ 33 \end{array}$$

$$\begin{array}{r} 4.5 \\ 33 \end{array} \quad \begin{array}{r} 4.8 \\ 14 \end{array} \quad \begin{array}{r} 5.2 \\ 13 \end{array} \quad \begin{array}{r} 4.8 \\ 0 \end{array} \quad \begin{array}{r} 5.2 \\ 7 \end{array} \quad \begin{array}{r} 5.5 \\ 13 \end{array} \quad \begin{array}{r} 5.2 \\ 15 \end{array} \quad \begin{array}{r} 5.4 \\ 33 \end{array}$$

$$\begin{array}{r} 5.3 \\ 33 \end{array} \quad \begin{array}{r} 5.7 \\ 13 \end{array} \quad \begin{array}{r} 5.3 \\ 0 \end{array} \quad \begin{array}{r} 5.9 \\ 12 \end{array} \quad \begin{array}{r} 5.6 \\ 14 \end{array} \quad \begin{array}{r} 5.8 \\ 33 \end{array}$$

$$\begin{array}{r} 5.8 \\ 33 \end{array} \quad \begin{array}{r} 6.0 \\ 13 \end{array} \quad \begin{array}{r} 5.3 \\ 0 \end{array} \quad \begin{array}{r} 5.8 \\ 13 \end{array} \quad \begin{array}{r} 5.5 \\ 15 \end{array} \quad \begin{array}{r} 5.6 \\ 33 \end{array}$$

$$\begin{array}{r} 5.9 \\ 33 \end{array} \quad \begin{array}{r} 5.5 \\ 15 \end{array} \quad \begin{array}{r} 5.9 \\ 13 \end{array} \quad \begin{array}{r} 4.9 \\ 0 \end{array} \quad \begin{array}{r} 4.7 \\ 14 \end{array} \quad \begin{array}{r} 4.3 \\ 15 \end{array} \quad \begin{array}{r} 3.6 \\ 33 \end{array}$$

$$\begin{array}{r} 5.7 \\ 33 \end{array} \quad \begin{array}{r} 4.6 \\ 14 \end{array} \quad \begin{array}{r} 3.4 \\ 0 \end{array} \quad \begin{array}{r} 3.1 \\ 12 \end{array} \quad \begin{array}{r} 3.1 \\ 14 \end{array} \quad \begin{array}{r} 2.6 \\ 33 \end{array}$$

+ 1053.19 ✓

17+00

17.9

+70

11.5

18+00

10.1 ✓

T.P.

0.01 ✓ 1011.68 11.52 1011.67

+55

07.3

19+00

05.3

+50

01.9

20+00

99.5 ✓

1.45

✓
999.28

13.85

997.83 ✓

+50

96.9

21+00

94.7

+50

92.9

22+00

89.7

+50

88.6

23+00

86.6

$$\frac{7.4}{33}$$

$$\frac{8.3}{33}$$

$$\frac{5.2}{10}$$

$$\frac{4.8}{17}$$

$$\frac{4.1}{23}$$

$$\frac{13.2}{33}$$

$$\frac{11.7}{33}$$

$$\frac{9.6}{33}$$

$$\frac{14.7}{33}$$

$$\frac{13.1}{33}$$

$$\frac{10.8}{33}$$

$$\frac{5.5}{33}$$

$$\frac{4.4}{33}$$

$$\frac{4.0}{33}$$

$$\frac{7.9}{33}$$

$$\frac{6.4}{33}$$

$$\frac{6.9}{33}$$

$$\frac{10.1}{33}$$

$$\frac{9.8}{33}$$

$$\frac{9.4}{33}$$

$$\frac{12.4}{33}$$

$$\frac{12.2}{33}$$

$$\frac{12.0}{33}$$

$$\frac{2.5}{33}$$

$$\frac{3.3}{15}$$

$$\frac{2.4}{33}$$

$$\frac{2.3}{33}$$

$$\frac{4.3}{33}$$

$$\frac{5.5}{12}$$

$$\frac{4.6}{33}$$

$$\frac{4.5}{33}$$

$$\frac{5.3}{33}$$

$$\frac{6.5}{15}$$

$$\frac{6.4}{33}$$

$$\frac{5.9}{33}$$

$$\frac{7.2}{33}$$

$$\frac{9.2}{16}$$

$$\frac{9.6}{33}$$

$$\frac{10.0}{33}$$

$$\frac{9.6}{33}$$

$$\frac{10.7}{14}$$

$$\frac{11.1}{12}$$

$$\frac{10.7}{33}$$

$$\frac{11.6}{20}$$

$$\frac{11.5}{33}$$

$$\frac{11.7}{33}$$

$$\frac{12.4}{16}$$

$$\frac{12.7}{16}$$

$$\frac{13.1}{20}$$

$$\frac{13.2}{33}$$

$$\frac{14.1}{46}$$

+ 999.28 ✓

T.P. 1.58 988.38 ✓ 12.48 986.80 ✓
23+50 84.8

24+00 83.3

+50 82.5

25+00 81.1

+50 80.3

26+00 79.9

+38 2 HALLOWAY 79.6

T.B.M. 8.09 980.29 ✓

2.0 $\frac{4}{1}$

$$\frac{3.4}{33}$$

$$\frac{3.7}{19}$$

$$\frac{3.6}{1}$$

$$\frac{4.2}{15}$$

$$\frac{4.4}{42} \frac{5.3}{50}$$

$$\frac{5.0}{33}$$

$$\frac{5.1}{1}$$

$$\frac{5.8}{33}$$

$$\frac{5.9}{33}$$

$$\frac{5.9}{1}$$

$$\frac{6.4}{33}$$

$$\frac{7.0}{33}$$

$$\frac{7.3}{1}$$

$$\frac{7.8}{33}$$

$$\frac{8.0}{33}$$

$$\frac{8.1}{1}$$

$$\frac{8.7}{33}$$

$$\frac{8.1}{33}$$

$$\frac{8.5}{1}$$

$$\frac{9.0}{33}$$

$$\frac{7.1}{100}$$

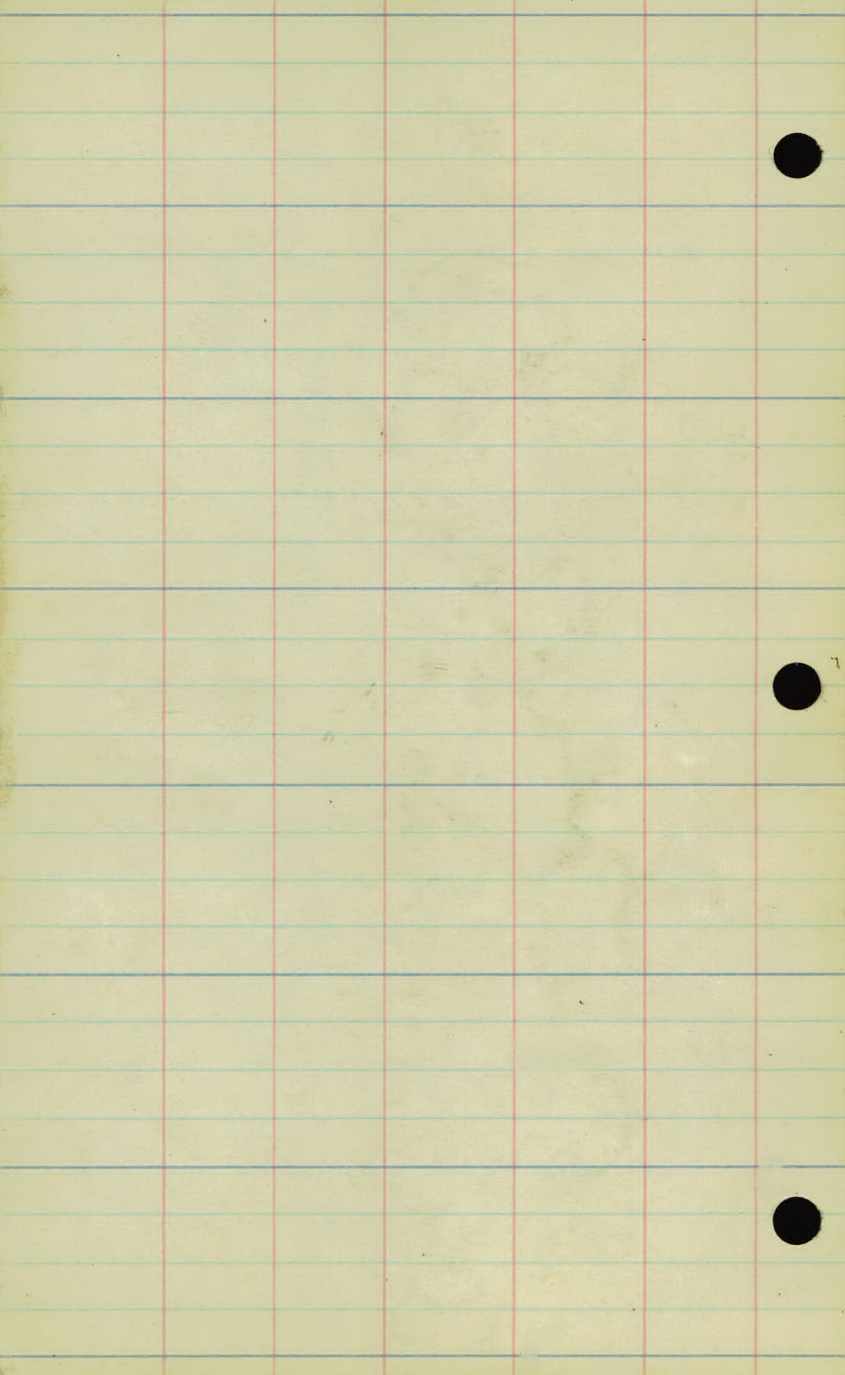
$$\frac{7.9}{50}$$

$$\frac{8.8}{1}$$

$$\frac{9.6}{50}$$

$$\frac{10.0}{100}$$

IRON PIN - S.W. COR.



D. Mink
7/28/36

CHECK LEVELS

HOWARD AVE

STA.	+	K	-	El.
B.M.	3.28	1023.21		1019.93
14+00			4.2	1019.01
15+00			5.2	1018.01
16+00			4.8	1018.41
P.O.T.			3.8	1019.4
17+00			5.3	1017.91
T.P.	2.50	1019.53	6.18	1017.03
18+00			9.4	1010.13
T.P.	2.18	1008.15	13.56	1005.97
19+00			2.8	1005.35
20+00			8.2	999.95
21+00			13.1	995.05
T.P.	1.16	995.71	13.60	994.55
22+00			4.1	991.61

N.W. Iron RIPLEY. & HOWARD

995.71

23+00

7.1

988.61

24+00

10.3

985.41

25+00

12.5

983.21

B. M.

(Iron 'How. & W. L. 13.18
15)

982.53

Howard Ave.
Larpenteur to Ab. Howard

Slope Stakes.

Sta.	+	π	-	Grade	q. Rod
B.M.	0.02	1025.94			1025.92
0+0					
0+9					
0+18				23.6	2.3
0+60				22.8	3.1
1				22.0	3.9
+30				21.4	4.5
+75				20.5	5.4
2				20.0	5.9
+50				19.3	6.6
3			18.4	19.2	6.7
+35				18.3 19.5	6.4
4				20.2 20.8	5.1
	7.96	1030.09	3.81		1026.13

lt.

2

rt.

Aug. 4-1936

W. N. G.

L. B. H.

O. M.

N. G.

$$\begin{array}{r} 76 \\ 12 \end{array}$$

$$\begin{array}{r} 2.1 \\ 102 \end{array}$$

$$\begin{array}{r} 2.5 \\ 13 \end{array}$$

$$20.0 \overline{) 4.1} \quad 20.0 \overline{) 4.1}$$

$$12 \overline{) 4.1} \quad 12 \overline{) 4.1}$$

$$\begin{array}{r} 39 \\ 00 \end{array}$$

$$\begin{array}{r} 4.5 \\ 1.4 \overline{) 17.2} \end{array}$$

$$20 \overline{) 4.8} \quad 20 \overline{) 4.8}$$

$$102 \overline{) 5.0} \quad 102 \overline{) 5.0}$$

$$\begin{array}{r} 39 \\ 00 \end{array}$$

$$\begin{array}{r} 6.2 \\ 2.3 \overline{) 19.9} \end{array}$$

$$20. \overline{) 4.9} \quad 20. \overline{) 4.9}$$

$$\begin{array}{r} 45 \\ 00 \end{array}$$

$$\begin{array}{r} 2.7 \\ 3.2 \overline{) 22.6} \end{array}$$

$$20. \overline{) 3.4} \quad 20. \overline{) 3.4}$$

$$\begin{array}{r} 50 \\ 10.4 \end{array}$$

$$\begin{array}{r} 7.0 \\ 2.0 \overline{) 19.0} \end{array}$$

$$200 \overline{) 3.8} \quad 200 \overline{) 3.8}$$

$$\begin{array}{r} 54 \\ 19.5 \end{array}$$

$$\begin{array}{r} 7.2 \\ 1.3 \overline{) 10.9} \end{array}$$

$$\begin{array}{r} 7.2 \\ 2.2 \overline{) 30.0} \end{array}$$

$$178 \overline{) 8.2} \quad 178 \overline{) 8.2}$$

$$\begin{array}{r} 66 \\ 00 \end{array}$$

$$\begin{array}{r} 7.8 \\ 1.3 \overline{) 10.9} \end{array}$$

$$\begin{array}{r} 7.9 \\ 2.2 \overline{) 30.0} \end{array}$$

$$-2.0 \quad 20 \overline{) 8.2} \quad 20 \overline{) 8.2}$$

$$\begin{array}{r} 74 \\ 02 \end{array}$$

$$\begin{array}{r} 9.8 \\ 3.1 \overline{) 22.8} \end{array}$$

$$280 \overline{) 10.4} \quad 280 \overline{) 10.4}$$

$$\begin{array}{r} 76 \\ 11.2 \end{array}$$

$$\begin{array}{r} 102 \\ 28 \end{array}$$

$$200 \overline{) 6.6} \quad 200 \overline{) 6.6}$$

$$175 \overline{) 6.6} \quad 175 \overline{) 6.6}$$

$$\begin{array}{r} 57 \\ 06 \end{array}$$

$$\begin{array}{r} 6.6 \\ 2.0 \overline{) 30.0} \end{array}$$

St. + 7 - Grade

1030.09

4+30

21.5

+70

22.4

5+0

22.7

(5+16 Cal. Point)

+50

23.0

6

22.9

+50

22.4

2.46

1073.91

1064

101945

7

21.4

+50

20.2

1018.91

8

19.0

+50

18.1

9

18.0

(9+13 Cal. Point)

+50

18.4

C

Z

R1

86

$$30 \overline{) \frac{9.1}{30.10}}$$

$$\frac{8.3}{+0.3}$$

$$\frac{7.3}{+4.3/30.}$$

77

$$30 \overline{) \frac{3.1}{+4.6}}$$

$$\frac{6.5}{+1.2}$$

$$\frac{3.3}{+4.0/30}$$

7.4
~~6.4~~

$$30 \overline{) \frac{3.0}{+4.4}}$$

$$\frac{5.4}{+2.0}$$

$$\frac{+3.4}{+4.0/30.}$$

7.1

$$30 \overline{) \frac{3.9}{+3.2}}$$

$$\frac{5.0}{+2.1}$$

$$\frac{5.4}{+4.7/30.}$$

6.2

$$30 \overline{) \frac{4.8}{+2.4}}$$

$$\frac{5.8}{+1.4}$$

$$\frac{7.5}{+4.2/30.}$$

4.9

$$30 \overline{) \frac{5.6}{+2.1}}$$

$$\frac{7.6}{+0.1}$$

$$\frac{2.4}{+1.8} \quad \frac{1.5}{+0.0/30}$$

2.5

$$30 \overline{) \frac{3.1}{+0.9}}$$

$$\frac{3.2}{-0.7}$$

$$\frac{6.2}{-3.7/24.1}$$

3.7

$$30.8 \overline{) \frac{6.3}{-2.6}}$$

$$\frac{4.2}{-0.5}$$

$$\frac{6.4}{-2.7/21.1}$$

4.9

6.4

$$\frac{7.0}{30}$$

$$18.4 \overline{) \frac{6.7}{-1.8}}$$

$$\frac{4.7}{+0.2}$$

$$\frac{5.5}{+0.6/4.8} \quad \frac{5.4}{+0.1.0/30.}$$

5.8

7.9

$$18.4 \overline{) \frac{2.6}{-1.8}}$$

$$\frac{6.3}{-0.5}$$

$$\frac{6.6}{-2.8/15.4} \quad \frac{7.3}{+0.0/30.}$$

5.9

$$25.0 \overline{) \frac{9.9}{-4.0}}$$

$$\frac{7.7}{-1.8}$$

$$\frac{9.6}{-3.7/24.1}$$

5.5

$$28.0 \overline{) \frac{10.5}{-5.0}}$$

$$\frac{7.4}{-1.9}$$

$$\frac{9.1}{-2.6/23.8}$$

Sta. + π - Grade

+75 1023.91

10 19.6

7.75 1029.62 2.04 1021.87

+45 20.8

(10+57 Bal. Point)

11 21.8

(11+58 Bal. Point)

+65 22.6

9.65 1019.97

(1492)

12 22.6

+50 22.4

13 21.9

+20 Δ Riplef 21.6

+50 21.5

14 20.4

+50 19.6

15 18.8

(15+50 Bal. Point)

d.

z

Rt.

5.0

$$\frac{5.0}{+0.0/30}$$

$$\frac{1.9}{+2.4/30}$$

4.3

$$22.0 \frac{7.0}{-30}$$

$$\frac{5.3}{-1.0}$$

8.8

$$78.5 \frac{10.3}{2000}$$

$$\frac{7.6}{+1.2}$$

$$\frac{3.3}{+5.5/30}$$

7.8

$$20 \frac{8.5}{1000.8}$$

$$\frac{5.8}{+2.0}$$

$$\frac{3.3}{+4.5/30}$$

7.0

$$20.0 \frac{5.0}{+20}$$

$$\frac{4.6}{+2.4}$$

$$\frac{4.4}{+2.6/30}$$

N.W. Cor. Lot 1 on @ Ripley.

7.0

$$20 \frac{6.2}{+0.8}$$

$$\frac{5.8}{+1.2}$$

$$\frac{5.6}{+1.4/30}$$

7.2

$$20 \frac{7.7}{1000}$$

$$\frac{7.2}{0.0}$$

$$\frac{7.4}{001.3/30}$$

7.7

$$20 \frac{8.7}{1000.5}$$

$$\frac{8.6}{-0.9}$$

$$\frac{8.9}{1000.3/30}$$

8.5

$$20 \frac{9.7}{1000.3}$$

$$\frac{10.0}{-1.5}$$

$$\frac{10.2}{-1.7/18.1} \frac{10.3}{/30}$$

9.2

$$20 \frac{10.3}{1000.4}$$

$$\frac{10.6}{-1.4}$$

$$\frac{11.0}{-1.8/18.4}$$

10.0

$$20 \frac{10.9}{1000.6}$$

$$\frac{11.2}{-1.2}$$

$$\frac{11.7}{-1.7/18.1}$$

10.8

$$20 \frac{11.7}{1000.6}$$

$$\frac{11.7}{-0.9}$$

$$\frac{12.3}{1000.0/30}$$

Sta.	+	π	-	Grade.
15+50	4.35	1029.62 1023.05	10.92	1018.70 12.7
16				16.5
+65				14.3
	3.66	1020.73	5.98	1017.07
17				13.5
(+75-Bal Point)				
+70				10.8
18				09.6
+55				07.2
	0.49	1009.00	12.22	1008.51
19				05.1
+50	?			02.8
20				00.5
+	?			98.2
21				95.9
	0.48	997.66	11.82	997.18

L1

E

R1.

5.4

$$30 \overline{) 5.5} \\ \underline{15.4}$$

$$\frac{5.1}{10.3}$$

$$\frac{5.4}{15.5} / 30.$$

6.6

$$30 \overline{) 5.6} \\ \underline{+1.0}$$

$$\frac{4.7}{11.9}$$

$$\frac{3.6}{12.0} / 30$$

8.8

$$30 \overline{) 5.3} \\ \underline{+2.8}$$

$$\frac{3.4}{15.4}$$

$$\frac{2.4}{16.4} / 30$$

TOP / 1000 Mon. 33' L. Stem 6189

7.2

$$30 \overline{) 4.7} \\ \underline{+2.5}$$

$$\frac{2.7}{14.5}$$

$$\frac{1.6}{15.6} / 30.$$

9.9

$$30 \overline{) 10.6} \\ \underline{10.8}$$

$$\frac{9.2}{10.7}$$

$$\frac{2.5}{12.4} / 30.$$

11.1

$$30 \overline{) 11.9} \\ \underline{12.0}$$

$$\frac{10.4}{10.7}$$

$$\frac{8.5}{12.6} / 30.$$

13.5

$$30 \overline{) 14.3} \\ \underline{10.7}$$

$$\frac{13.5}{0.8}$$

$$\frac{13.0}{16.5} / 30.$$

Top Lot Stake 14-15- R1.

29

$$30 \overline{) 4.4} \\ \underline{10.0}$$

$$\frac{3.5}{10.4}$$

$$\frac{3.7}{10.2} / 30.$$

6.2

$$30 \overline{) 6.6} \\ \underline{10.1}$$

$$\frac{6.2}{0.0}$$

$$\frac{5.9}{10.3} / 30$$

8.5

$$30 \overline{) 9.0} \\ \underline{10.0}$$

$$\frac{100.0}{9.0} \\ \underline{-0.5}$$

$$\frac{8.4}{10.1} / 30.$$

10.8

$$30 \overline{) 11.3} \\ \underline{10.0}$$

$$\frac{11.5}{-0.7}$$

$$\frac{11.1}{10.2} / 30$$

13.1

$$30 \overline{) 13.3} \\ \underline{10.3}$$

$$\frac{13.1}{-0.8}$$

$$\frac{13.3}{10.3} / 30$$

Sh

+

x

-

Grade

997.66

21 + 50

?

93.7

22

91.7

-

+ 50

90.0

23

88.4

98.35 - 73.46

24.89
Scales

+ 50

87.0

24

88.9

1.14

987.53

11.27

986.39

+ 50

84.9

25

84.2

+ 50.

83.7

26

83.4

+ 38

83.3

4.89

987.64 (982.50)

7
p.

H.

93.2

RT-

4.0

$$30 \overline{) \begin{array}{r} 3.5 \\ +0.5 \end{array}}$$

$$\begin{array}{r} 4.5 \\ -0.5 \\ \hline \end{array}$$

$$\frac{4.2}{101.7/30}$$

$$91.7$$

6.0

$$30 \overline{) \begin{array}{r} 4.8 \\ +1.2 \end{array}}$$

$$\begin{array}{r} 6.0 \\ -0.0 \\ \hline \end{array}$$

$$\frac{6.2}{101.3/30}$$

7.7

$$30 \overline{) \begin{array}{r} 5.8 \\ +1.9 \end{array}}$$

$$\begin{array}{r} 7.7 \\ -0.5 \\ \hline \end{array}$$

$$\frac{7.6}{101.1/30}$$

$$11.8$$

9.3

$$30 \overline{) \begin{array}{r} 7.9 \\ +1.4 \end{array}}$$

$$\begin{array}{r} 8.9 \\ +0.4 \\ \hline \end{array}$$

$$\frac{9.4}{101.4/30}$$

10.7

$$30 \overline{) \begin{array}{r} 10.4 \\ +0.3 \end{array}}$$

$$\begin{array}{r} 10.7 \\ -0.0 \\ \hline \end{array}$$

$$\frac{11.2}{101.0/30}$$

$$8.56$$

11.8

$$30 \overline{) \begin{array}{r} 11.9 \\ +1.1 \end{array}}$$

$$\begin{array}{r} 13.1 \\ -0.3 \\ \hline \end{array}$$

$$\frac{12.5}{102.8/30}$$

7.6

$$30 \overline{) \begin{array}{r} 7.8 \\ +0.3 \end{array}}$$

$$\begin{array}{r} 7.8 \\ -0.2 \\ \hline \end{array}$$

$$\frac{3.2}{100.9/30}$$

3.3

$$30 \overline{) \begin{array}{r} 3.8 \\ +0.0 \end{array}}$$

$$\begin{array}{r} 4.4 \\ -1.1 \\ \hline \end{array}$$

$$\frac{4.5}{100.3/30}$$

3.8

$$30 \overline{) \begin{array}{r} 4.8 \\ +0.5 \end{array}}$$

$$\begin{array}{r} 4.9 \\ -1.1 \\ \hline \end{array}$$

$$\frac{5.4}{100.0/30}$$

4.1

$$30 \overline{) \begin{array}{r} 5.0 \\ +0.6 \end{array}}$$

$$\begin{array}{r} 5.3 \\ -1.2 \\ \hline \end{array}$$

$$\frac{5.6}{101.5/30}$$

4.2

$$10. \overline{) \begin{array}{r} 5.2 \\ -1.0 \end{array}}$$

$$\begin{array}{r} 5.5 \\ -1.3 \\ \hline \end{array}$$

$$\frac{5.8}{101.6/30}$$

2.18	1016.10	1025.92
3.13	1022.71	7.52 - 1018.52

3135	2.2	19.5
20.7.5/c 3169	3.1	18.6
440		20.2

310		18.4
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3135		18.3
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440		20.2
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