

Dr. 8 - Bk 136

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

.....PLAN......Survey

.....KOEHLER RD......

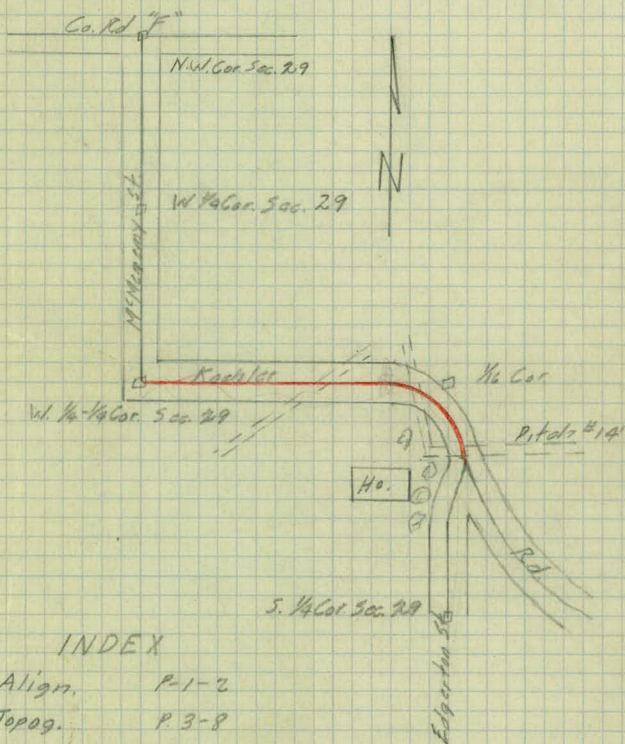
From Edgerton St. To M^s Menemy.

Road Acc't. No.

Date Filed.

File.

LAN SURVEY
Kochler Rd
Edgerton St. to McMenamy

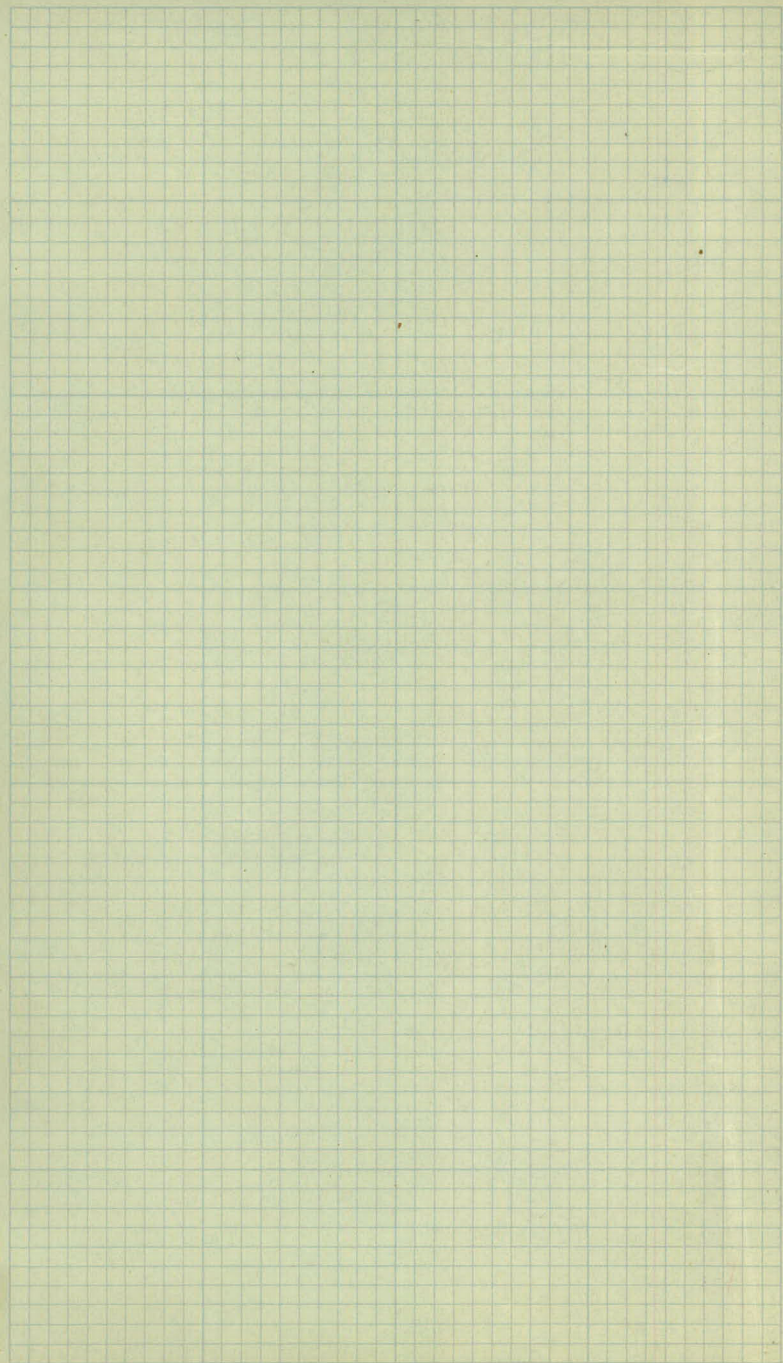


INDEX

Align.	P. 1-2
Topog.	P. 3-8
X Sections	P. 9-19

12/16/37

Wm. A. Proffer



Alignment

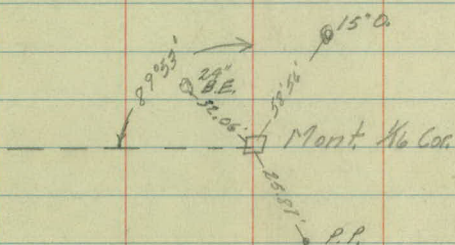
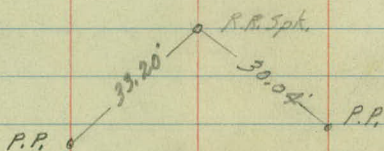
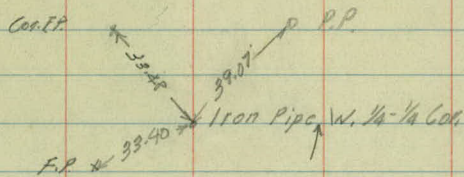
Sta	Point	ΔLt	ΔRt
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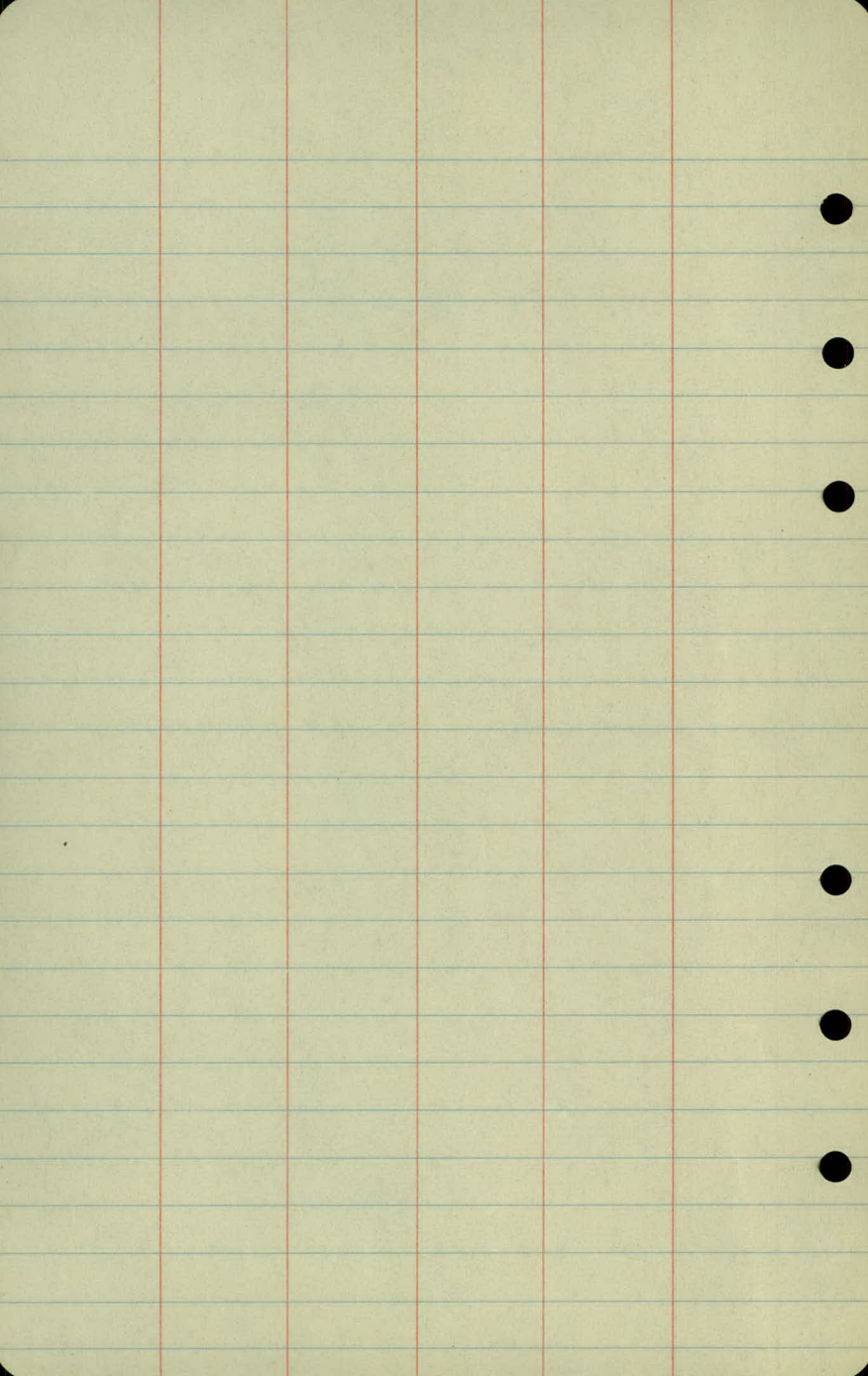
51 + 08.81	P.I. = $\frac{1}{2}$ McManamy		
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35 + 00	P.O.T.		
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26 + 94.48	P.T.	38° 14'	
+50		33° 20.5'	Δ -76° 28'
26		27° 50.5'	D-22° 00'
25 + 53.15	P.I.	76° 28'	T-206.25'
+50		22° 20.5'	L-348.49'
25		16° 50.6'	R-262.04'
+50		11° 20.5'	
24		5° 50.5'	
23 + 46.7	P.C.	0° 00'	

23 + 46.56 P.Q.T. = 224 + 27.29 P.T. Edgerton St





Topography

28

15'

27

48" x 120' C.M.

26

8'

11'

8'

12'

25

6'

15'

1

19'

24

481 - 48' x 113' C.M.

23

15'

5'

182-18° 34' 19"

+76-P.P. 24'

+33-P.P. 18'
+195 End 15' x 20' G.M. 16'

Fe 34'

Fe 32'

+84 End 15' Rail 5'
+80-30' Elm 28'

+46 Fe Cor 34'
+34 End G.Rail 14'

+23 End 45' Culv. 42'
Headwall 1' x 7' 8"

G.Rail 14'

G.Rail 6'

+75 G.Rail 12'
Headwall 1' x 7'-5"
+60 End 45' G.M. 57'
+50 G.Rail 12'

+74 End Wire Middle Fe
Beg. Side wire Fe 34'

+91 Beg G.Rail 11'

+21 Beg G.Rail 10'

+83 P.P. 19'

Fe 53'

+87 G.Rail 24'

+17-36' Box Elder 30'
End 44'-55'

+80 W. Edge End 30'

+50 Group A-16' Box Elder 12'
+50 End G.Rail 3'
+59-64' Box Elder 14'
+80-12' Box Elder 25'
G.Rail 14'

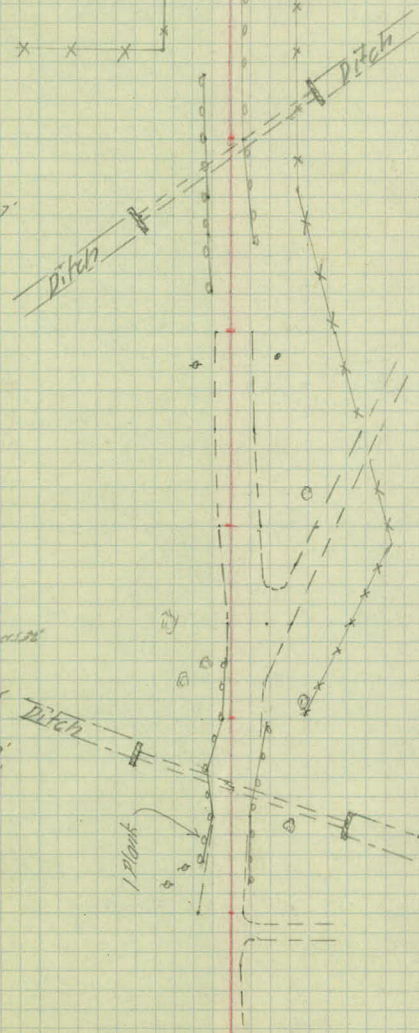
+50 Fe 62'
+50 E. Edge End 31'
+07-18' Box Elder 30'
+02 Beg Fe 38'
+99 End G.Rail 18'

+81 End 45' G.M. 49'
Headwall 1' x 7'-6"
+76 G.R. 15'
+70 G.R. 10'

+75 G.R. 6'
+50 G.R. 9'
Headwall 1' x 7' 8"
+46 End 45' Culv. 60'
+75-6' Box Elder 30'
+16 Beg G.Rail 8'

+21 Beg G.Rail 15'
+23-P.P. 24'
+14-P.P. 34'

+90 End



35

11

11'

34

11'

11'

33

10'

11'

32

11'

11'

31

12'

10'

30

14'

9'

29

14'

7'

Brush
Woods

Fe. 32'

+77-P.P. 25'

+76-P.P. 19'

Cult.

Cult.

Fe. 32'

+53-15" B. Elder 31'

+34 M. W. Cor. Ha. 56'

+12 M. E. Cor. Ha. 56'

2-5-F₁

+99-24" B. Elder 32'

+87 Post. 12 X 18' 4" 14'

Fe. 32'

+97 3/4 P. 21'

Fe. 32'

Cult.

+75 P.P. 25'

+68 P.P. 19'

+57-15" Oak 29'

+91 End Fe. 29'

Fe. 32'

+26-P.P. 24'

Fe. 31

Meadow.

Cult.

Fe. 32'

+98-20" B. Elder 28'

Fe. 33'

+11-10" Box Elder 30'

+07-10" B. Elder 30'

Fe. 32'

42

12'

8'

41

10'

9'

40

11'

+ 128 12" X 40" C.M.

20' Lt.

20' Rt.

39

10'

38 F.C. 34'
+ 92-48 X 72 C.M.

10'

6'

37

12'

8'

36

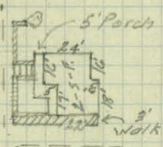
11'

10'

+50 Ent.

+88-6" Tree 21'
+60-20" B. Elder 21'
+91-15" B. Elder 21'

Yard



+93 Cor. Wall 13'-20'
+92-24" B. Elder 21'
+775 W. Cor. No. 28'
+69 5' W. 192 Steps
+61 11" No. 29'
+93 S. E. Cor. No. 36'
+98 Cor. Retain Wall 12'
+33 Ent.
+04 P.P. 15'

+81 P.P. 26'

+58 E. Cor. 29'

+91 End G. Rail 10'

Fc 24'

G. Rail 10'

Fc 29'

G. Rail 10'

Pasture

Cult.

+31-12" B. Elder & Fc 31'

+15 Beg G. Rail 9'

+20 Beg End Head wall 46'

+17 End 48" M. 23'

+14 W. End 16" M. 31'

+12 Head wall - 19' 11" No. 26'

12" x 26" P.P.

+94 E. End 12" M. 29'

+90-36" Elm 36'

+83 P.P. 25'

+50 E. Ent. 15'

+20 Large Tie to Ent.

P.P. 18'

+95 End G. Rail 7'

+97 Fc Cor. 33'

+73 End Head wall 25'

+68 End 48" M. 23'

+65 12" Head wall 22'

+57 Beg Head wall 22'

+45 Beg G. Rail 9'

Fc 34'

Cult.

Woods
and
Brush

Fc 29'

49

13'

10'

48

14'

9'

47

14'

8'

46

13'

9'

+52 12" X 38' C.M.

45

13'

9'

44

13'

8'

43

14'

7'

Fc. 30'

+80 P.P. 27'

Fc. 29'

Fc. 29'

+53 P.P. 28'

Fc. 29'

+81 Fc. Cor. 29'

+58-15" Calt. 20'

+49 End Calt. 20'

Water Dept. Reforested Pines

Calt.

Calt.

+92 P.P. 25'

+55 End Calt. 17'

+50 P.P. 15'

+83 P.P. 26'

Calt.

pitch

51

50

11'

12'

Water Dept
Reforested Pines

+30, Fc, Farc tangent

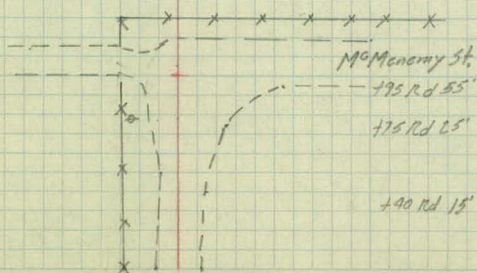
+05 Ent.

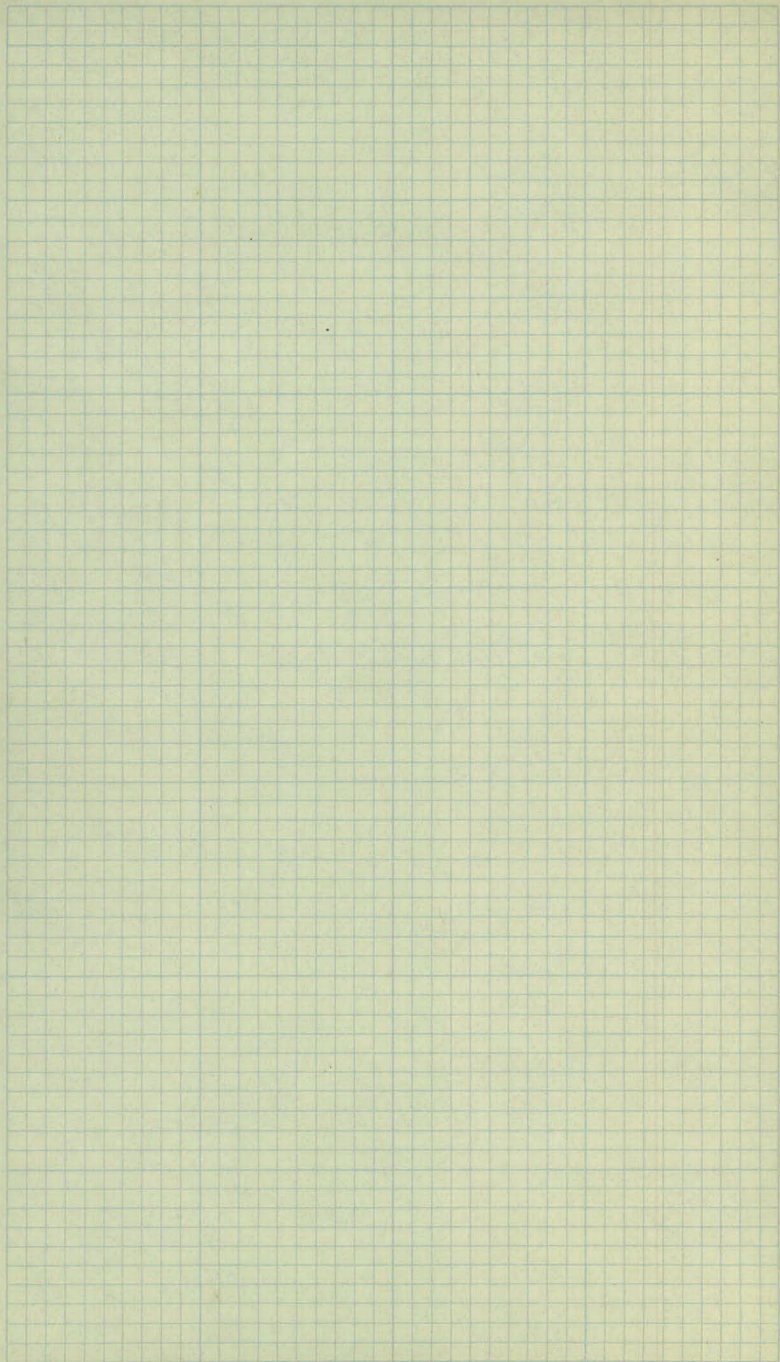
+78 P, P 26'

+30 Rd 8'

+25-15' Oak 32'

Fc 28'





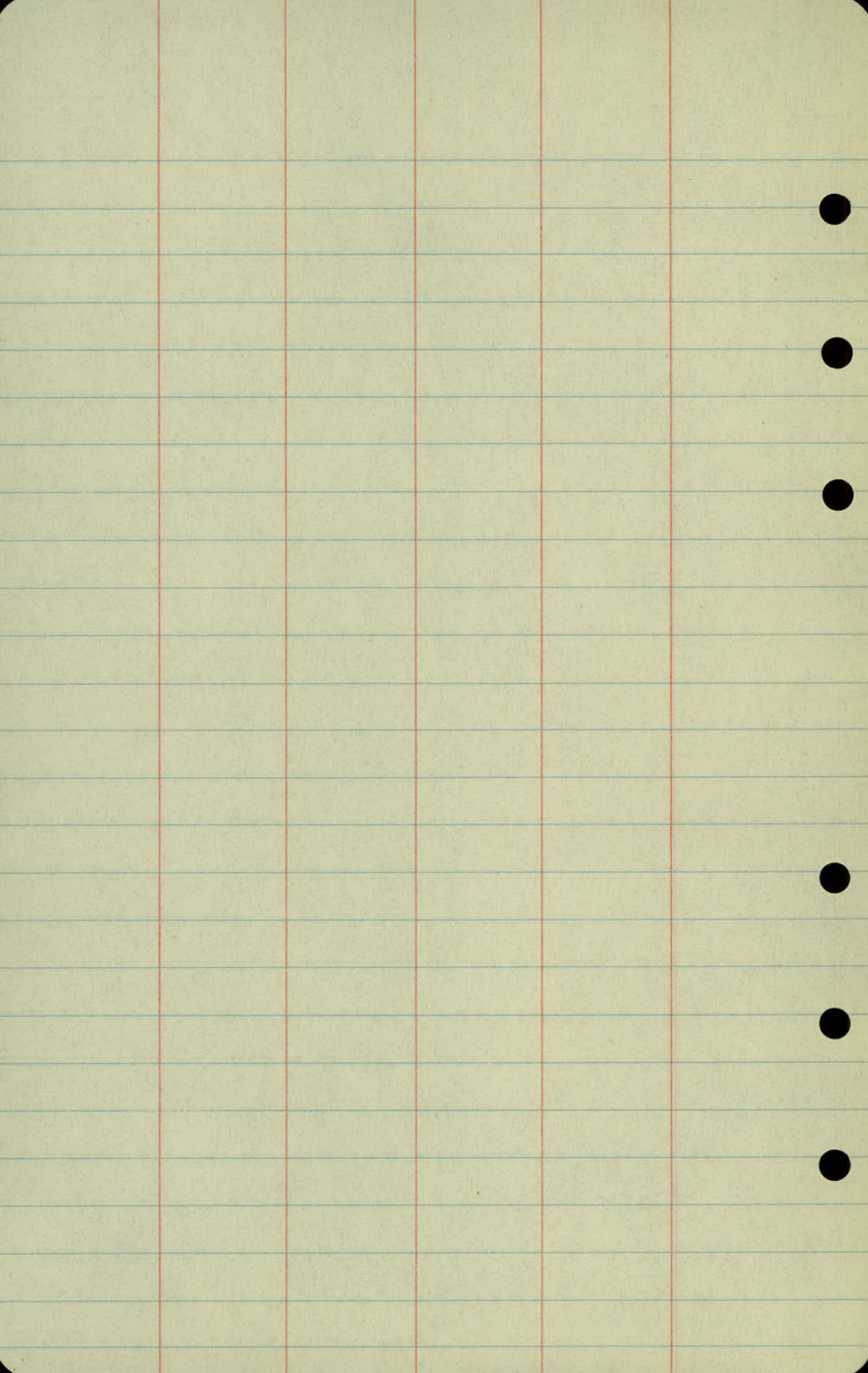
Bench Levels

Sta	+	π	-	E/cv
B.M.	5.21	921.27		916.06
T.P.	1.63	917.74	3.16	916.11
T.P.	1.94	906.84	12.84	904.90
B.M.	4.56	906.84	4.56	902.28
T.P.	12.33	911.62	7.55	899.29
B.M.			1.47	910.15

Top Mont Koehler Rd + Edgerton

Top S. W. Cor. Newer + Co.

R.R. 3 pk in P.A. N. W. Cor. Koehler + 19° Madison



X sections

Sta	+	π	-	Elev.
B.M.	0.12	916.22		916.06

23

+14

+32

+50

+81

24 + 00

+30

+50

B.M.	3.06	919.12		916.06
------	------	--------	--	--------

25 + 00

+50

26

Lt. £ Rt.

Top Mont Koch/cr & Edgerton St.

$$\frac{51}{50} \quad \frac{45}{40} \quad \frac{53}{36} \quad \frac{51}{29} \quad \frac{42}{24} \quad \frac{45}{23} \quad \frac{40}{18} \quad \frac{40}{18} \quad \frac{60}{50}$$

$$\frac{61}{50} \quad \frac{51}{31} \quad \frac{56}{29} \quad \frac{46}{17} \quad \frac{40}{14} \quad \frac{45}{29} \quad \frac{79}{45} \quad \frac{92}{45} \quad \frac{90}{50}$$

$$\frac{76}{30} \quad \frac{81}{43} \quad \frac{70}{36} \quad \frac{61}{20} \quad \frac{45}{15} \quad \frac{40}{11} \quad \frac{44}{22} \quad \frac{102}{40} \quad \frac{156}{40} \quad \frac{186}{50} \quad \frac{180}{150}$$

Headwind

$$\frac{164}{65} \quad \frac{174}{50} \quad \frac{170}{34} \quad \frac{151}{31} \quad \frac{140}{26} \quad \frac{44}{10} \quad \frac{41}{10} \quad \frac{42}{10} \quad \frac{220}{36} \quad \frac{222}{60} \quad \frac{262}{60} \quad \frac{260}{75}$$

Headwind

$$\frac{270}{15} \quad \frac{269}{50} \quad \frac{211}{50} \quad \frac{184}{29} \quad \frac{43}{30} \quad \frac{42}{17} \quad \frac{45}{260} \quad \frac{110}{82} \quad \frac{146}{97} \quad \frac{126}{44} \quad \frac{119}{44} \quad \frac{114}{50}$$

$$\frac{157}{50} \quad \frac{161}{34} \quad \frac{150}{26} \quad \frac{42}{40} \quad \frac{42}{17} \quad \frac{36}{24} \quad \frac{40}{31} \quad \frac{66}{37} \quad \frac{45}{37} \quad \frac{45}{50}$$

$$\frac{60}{50} \quad \frac{87}{12} \quad \frac{39}{24} \quad \frac{34}{41} \quad \frac{45}{47}$$

$$\frac{51}{50} \quad \frac{22}{34} \quad \frac{28}{6} \quad \frac{36}{4} \quad \frac{37}{15} \quad \frac{30}{37} \quad \frac{33}{37} \quad \frac{40}{50}$$

Top Mont

$$\frac{52}{50} \quad \frac{62}{34} \quad \frac{49}{10} \quad \frac{62}{6} \quad \frac{60}{200} \quad \frac{58}{27} \quad \frac{36}{34} \quad \frac{26}{34} \quad \frac{43}{50}$$

$$\frac{63}{50} \quad \frac{60}{37} \quad \frac{64}{29} \quad \frac{55}{11} \quad \frac{61}{9} \quad \frac{57}{17} \quad \frac{58}{21} \quad \frac{62}{27} \quad \frac{45}{32} \quad \frac{58}{41} \quad \frac{59}{46} \quad \frac{34}{50}$$

$$\frac{13.5}{50} \quad \frac{13}{29} \quad \frac{51}{21} \quad \frac{50}{14} \quad \frac{57}{9} \quad \frac{53}{18} \quad \frac{42}{26} \quad \frac{80}{34} \quad \frac{78}{39} \quad \frac{66}{39} \quad \frac{10}{50}$$

Sta	+	π	-	Elev.
		917.12		

2.6+ 31

+59

+95

2.7 +23

+43

+57

+70

+83

T.P	2.94	921.10	0.96	918.16
-----	------	--------	------	--------

2.8

+50

2.9

Lt

L

Rt

$$\frac{28.8}{78.0} \quad \frac{23.6}{24} \quad \frac{20.8}{44} \quad \frac{52}{11} \quad \frac{4.9}{14} \quad \frac{4.7}{21} \quad \frac{6.8}{30} \quad \frac{7.2}{41} \quad \frac{3.3}{41}$$

Culv

$$\frac{22.6}{25} \quad \frac{26.3}{59} \quad \frac{25.1}{59} \quad \frac{29.8}{43} \quad \frac{48}{13} \quad \frac{44}{17} \quad \frac{5.2}{23} \quad \frac{8.6}{26} \quad \frac{8.5}{29} \quad \frac{7.6}{35} \quad \frac{7.2}{35}$$

$$\frac{11.8}{68.0} \quad \frac{18.3}{43.0} \quad \frac{19.4}{31.0} \quad \frac{4.5}{13} \quad \frac{4.3}{6} \quad \frac{4.4}{29} \quad \frac{19.3}{41} \quad \frac{19.8}{41} \quad \frac{12.4}{65}$$

$$\frac{9.0}{41} \quad \frac{9.6}{26} \quad \frac{4.7}{19} \quad \frac{4.1}{11} \quad \frac{4.3}{6} \quad \frac{20.7}{28} \quad \frac{24.5}{43} \quad \frac{26.7}{43} \quad \frac{21.5}{65.0}$$

$$\frac{4.6}{33.0} \quad \frac{4.5}{29} \quad \frac{5.0}{26} \quad \frac{5.0}{20} \quad \frac{3.7}{16} \quad \frac{3.9}{6} \quad \frac{3.9}{27} \quad \frac{15.5}{21} \quad \frac{22.0}{30}$$

$$\frac{4.8}{33} \quad \frac{5.0}{29} \quad \frac{5.2}{27} \quad \frac{5.6}{22} \quad \frac{3.8}{16} \quad \frac{3.6}{5} \quad \frac{4.1}{10} \quad \frac{8.4}{15} \quad \frac{9.5}{25} \quad \frac{11.2}{33.0}$$

$$\frac{4.5}{33.0} \quad \frac{5.0}{29} \quad \frac{5.6}{28} \quad \frac{5.7}{23} \quad \frac{3.8}{16} \quad \frac{3.4}{9} \quad \frac{3.8}{16} \quad \frac{7.4}{16} \quad \frac{10.3}{33.0}$$

$$\frac{4.0}{33} \quad \frac{4.6}{30} \quad \frac{5.7}{29} \quad \frac{5.8}{24} \quad \frac{3.7}{17} \quad \frac{3.2}{10} \quad \frac{3.6}{10} \quad \frac{4.7}{16} \quad \frac{3.8}{33}$$

$$\frac{5.5}{33} \quad \frac{5.9}{30} \quad \frac{7.7}{27} \quad \frac{7.2}{23} \quad \frac{5.6}{17} \quad \frac{5.0}{10} \quad \frac{5.2}{10} \quad \frac{6.9}{17} \quad \frac{6.2}{33}$$

$$\frac{4.6}{33} \quad \frac{5.5}{29} \quad \frac{3.0}{27} \quad \frac{7.4}{22} \quad \frac{5.4}{16} \quad \frac{4.8}{11} \quad \frac{5.0}{11} \quad \frac{5.7}{13} \quad \frac{5.2}{33}$$

$$\frac{5.2}{33} \quad \frac{6.2}{28} \quad \frac{7.4}{26} \quad \frac{7.4}{23} \quad \frac{5.1}{16} \quad \frac{4.8}{9} \quad \frac{5.1}{9} \quad \frac{5.8}{12} \quad \frac{4.9}{28} \quad \frac{4.6}{33}$$

Sta	+	T	-	Flav
		921.10		

29 + 50

30

+50

31

+50

32

+50

33

T.P.	3.22	918.84	5.48	915.62
+50				

34

+50

Lut

L

Rt

 $\frac{62}{32} \quad \frac{65}{28} \quad \frac{74}{27} \quad \frac{72}{19} \quad \frac{53}{15} \quad \frac{48}{10} \quad \frac{51}{13} \quad \frac{62}{24} \quad \frac{52}{32}$
 $\frac{42}{32} \quad \frac{64}{25} \quad \frac{82}{26} \quad \frac{78}{19} \quad \frac{51}{14} \quad \frac{47}{11} \quad \frac{54}{11} \quad \frac{67}{14} \quad \frac{71}{20} \quad \frac{92}{26} \quad \frac{89}{32}$
 $\frac{38}{32} \quad \frac{49}{30} \quad \frac{73}{27} \quad \frac{70}{20} \quad \frac{50}{15} \quad \frac{45}{12} \quad \frac{51}{12} \quad \frac{67}{16} \quad \frac{64}{21} \quad \frac{46}{30} \quad \frac{16}{32}$
 $\frac{18}{31} \quad \frac{45}{24} \quad \frac{55}{16} \quad \frac{51}{14} \quad \frac{46}{11} \quad \frac{50}{11} \quad \frac{64}{15} \quad \frac{64}{21} \quad \frac{10}{30} \quad \frac{10}{32}$
 $\frac{31}{29} \quad \frac{42}{17} \quad \frac{51}{12} \quad \frac{41}{10} \quad \frac{52}{10} \quad \frac{52}{19} \quad \frac{04}{25} \quad \frac{00}{32}$
 $\frac{39}{32} \quad \frac{47}{15} \quad \frac{52}{11} \quad \frac{49}{13} \quad \frac{52}{13} \quad \frac{55}{19} \quad \frac{02}{29} \quad \frac{05}{32}$
 $\frac{43}{32} \quad \frac{50}{15} \quad \frac{53}{10} \quad \frac{53}{11} \quad \frac{55}{11} \quad \frac{49}{18} \quad \frac{24}{22} \quad \frac{13}{32}$
 $\frac{50}{32} \quad \frac{55}{18} \quad \frac{61}{16} \quad \frac{58}{10} \quad \frac{58}{11} \quad \frac{61}{11} \quad \frac{56}{17} \quad \frac{38}{24} \quad \frac{33}{32}$
 $\frac{32}{32} \quad \frac{44}{20} \quad \frac{48}{17} \quad \frac{42}{14} \quad \frac{45}{13} \quad \frac{43}{12} \quad \frac{42}{14} \quad \frac{23}{22} \quad \frac{20}{32}$
 $\frac{57}{38} \quad \frac{50}{18} \quad \frac{54}{15} \quad \frac{51}{12} \quad \frac{48}{13} \quad \frac{49}{13} \quad \frac{31}{15} \quad \frac{27}{32}$
 $\frac{53}{32} \quad \frac{53}{24} \quad \frac{46}{19} \quad \frac{57}{16} \quad \frac{54}{11} \quad \frac{58}{11} \quad \frac{42}{17} \quad \frac{38}{21} \quad \frac{42}{32}$

Sta	+	π	-	Elev.
		918.84		

35

+50

36

+50

+78

37

T.P.	1.53	906.90	13.47	905.37
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+21

19.7 = No. End Culu Elev = 884.4

+61

+73

+95

38 +10

12/16/37

Snow

15

Lt

C

Rt

$$\frac{54}{33} \quad \frac{55}{18} \quad \frac{68}{15} \quad \frac{65}{13} \quad \frac{67}{13} \quad \frac{41}{18} \quad \frac{42}{33}$$

$$\frac{70}{33} \quad \frac{77}{19} \quad \frac{86}{14} \quad \frac{83}{12} \quad \frac{87}{12} \quad \frac{69}{12} \quad \frac{76}{33}$$

$$\frac{96}{33} \quad \frac{96}{25} \quad \frac{99}{18} \quad \frac{103}{16} \quad \frac{101}{12} \quad \frac{107}{12} \quad \frac{98}{16} \quad \frac{112}{33}$$

$$\frac{102}{33} \quad \frac{104}{24} \quad \frac{76}{21} \quad \frac{124}{17} \quad \frac{119}{12} \quad \frac{129}{12} \quad \frac{127}{16} \quad \frac{122}{18} \quad \frac{125}{33}$$

$$\frac{104}{33} \quad \frac{107}{25} \quad \frac{142}{19} \quad \frac{140}{17} \quad \frac{135}{14} \quad \frac{130}{12} \quad \frac{132}{12} \quad \frac{140}{15} \quad \frac{139}{18} \quad \frac{105}{22} \quad \frac{129}{25} \quad \frac{108}{20} \quad \frac{103}{33}$$

$$\frac{116}{33} \quad \frac{117}{26} \quad \frac{152}{20} \quad \frac{152}{17} \quad \frac{149}{14} \quad \frac{138}{11} \quad \frac{139}{11} \quad \frac{148}{14} \quad \frac{148}{15} \quad \frac{137}{17} \quad \frac{156}{33.0}$$

$$\frac{12}{33} \quad \frac{15}{24} \quad \frac{25}{23} \quad \frac{44}{17} \quad \frac{30}{14} \quad \frac{26}{12} \quad \frac{25}{8} \quad \frac{41}{20} \quad \frac{52}{33}$$

H.W.

$$\frac{42}{33} \quad \frac{45}{26} \quad \frac{57}{24} \quad \frac{57}{18} \quad \frac{43}{13} \quad \frac{40}{10} \quad \frac{40}{10} \quad \frac{51}{12} \quad \frac{117}{22} \quad \frac{167}{22} \quad \frac{198}{29} \quad \frac{195}{340} \quad \frac{143}{45}$$

$$\frac{48}{33} \quad \frac{52}{27} \quad \frac{63}{24} \quad \frac{61}{18} \quad \frac{58}{14} \quad \frac{44}{9} \quad \frac{45}{9} \quad \frac{135}{27} \quad \frac{127}{37}$$

$$\frac{67}{33} \quad \frac{72}{31} \quad \frac{87}{29} \quad \frac{61}{26} \quad \frac{50}{18} \quad \frac{48}{10} \quad \frac{49}{10} \quad \frac{66}{16} \quad \frac{68}{33}$$

H.W.

$$\frac{83}{33} \quad \frac{83}{22} \quad \frac{76}{20} \quad \frac{53}{11} \quad \frac{49}{12} \quad \frac{49}{12} \quad \frac{56}{15} \quad \frac{59}{33}$$

Sta + π - Elev.

906.90

38 +12

195 = 5. End Cuts Elev = 884.6

+17

+35

+56

39

+150

+85

40

T.P. 7.09 911.15 2.84 904.06

+85

40

+57

Lt

K

Rt

$$\begin{array}{r} \text{H.W.} \quad \text{H.W.} \\ \frac{8.8}{42} \quad \frac{8.1}{31} \quad \frac{14.7}{31} \quad \frac{13.4}{27} \quad \frac{7.9}{19} \quad \frac{5.4}{12} \quad \frac{4.9}{12} \end{array}$$

$$\begin{array}{r} \text{H.W.} \quad \text{H.W.} \\ \frac{8.0}{95} \quad \frac{15.7}{45} \quad \frac{16.3}{40} \quad \frac{19.5}{35} \quad \frac{16}{28} \quad \frac{14.4}{28} \quad \frac{7.5}{18} \quad \frac{5.7}{14} \quad \frac{4.9}{10} \quad \frac{4.9}{10} \quad \frac{5.4}{21} \quad \frac{5.0}{28} \end{array}$$

$$\frac{19.6}{50} \quad \frac{7.2}{27} \quad \frac{6.0}{14} \quad \frac{5.2}{11} \quad \frac{5.1}{10} \quad \frac{5.1}{10} \quad \frac{4.4}{17} \quad \frac{4.0}{23}$$

$$\frac{6.3}{33} \quad \frac{5.0}{24} \quad \frac{7.8}{17} \quad \frac{5.3}{11} \quad \frac{5.2}{10} \quad \frac{5.3}{10} \quad \frac{4.7}{23} \quad \frac{5.5}{33}$$

$$\frac{10.6}{33} \quad \frac{10.8}{24} \quad \frac{10.3}{18} \quad \frac{5.6}{10} \quad \frac{5.4}{13} \quad \frac{5.7}{13} \quad \frac{7.4}{19} \quad \frac{7.6}{22} \quad \frac{9.5}{33}$$

$$\frac{12.8}{33} \quad \frac{10.6}{18} \quad \frac{5.2}{11} \quad \frac{5.4}{10} \quad \frac{5.8}{18} \quad \frac{2.0}{20} \quad \frac{7.0}{23} \quad \frac{5.8}{33} \quad \frac{0.6}{48}$$

$$\frac{13.8}{33} \quad \frac{12.5}{23} \quad \frac{5.7}{12} \quad \frac{5.2}{12}$$

$$\frac{12.8}{33} \quad \frac{11.3}{23} \quad \frac{5.4}{11} \quad \frac{5.1}{11}$$

Top End Cap Rail Bolt Lt.

$$\frac{9.7}{12} \quad \frac{11.0}{16} \quad \frac{11.0}{18} \quad \frac{3.0}{33} \quad \frac{1.4}{50}$$

$$\frac{9.4}{13} \quad \frac{10.5}{16} \quad \frac{10.6}{19} \quad \frac{8.0}{27} \quad \frac{3.2}{36} \quad \frac{1.6}{50}$$

$$\frac{10.3}{33.0} \quad \frac{10.1}{16} \quad \frac{9.1}{12} \quad \frac{9.0}{12} \quad \frac{9.3}{12} \quad \frac{10.8}{15} \quad \frac{11.0}{19} \quad \frac{9.3}{26} \quad \frac{3.2}{33} \quad \frac{2.3}{50}$$

Sta + X - Elev.

911.15

41

+24

+43

296 First Floor Elev =

+93

8.17 8.89 911.15 8.89 902.26 902.28

+92

+92

42 8.22

+50

T.P. 3.97 904.66 10.44 900.71

43

+25

+60

Lt.

E

Rt.

$$\frac{91}{33} \quad \frac{93}{18} \quad \frac{93}{12} \quad \frac{90}{7} \quad \frac{88}{13} \quad \frac{98}{13} \quad \frac{98}{28} \quad \frac{38}{35} \quad \frac{30}{50}$$

$$\frac{90}{35} \quad \frac{93}{12} \quad \frac{89}{7} \quad \frac{85}{26} \quad \frac{79}{26} \quad \frac{43}{39} \quad \frac{32}{50}$$

$$\frac{90}{390} \quad \frac{80}{14} \quad \frac{93}{18} \quad \frac{101}{8} \quad \frac{91}{12.4} \quad \frac{86}{19.5} \quad \frac{80}{33}$$

$$\frac{101}{8} \quad \frac{91}{12.4} \quad \frac{86}{12.0} \quad \frac{49}{33.0}$$

Top 5. Vol. Cor. Lower Stop

$$\frac{94}{39} \quad \frac{95}{13} \quad \frac{95}{7} \quad \frac{98}{45} \quad \frac{91}{12.2} \quad \frac{50}{20} \quad \frac{49}{33.0}$$

$$\frac{98}{8} \quad \frac{88}{19} \quad \frac{75}{18} \quad \frac{59}{20.0} \quad \frac{53}{33}$$

$$\frac{91}{33} \quad \frac{96}{18} \quad \frac{96}{7} \quad \frac{58}{19} \quad \frac{64}{19} \quad \frac{54}{33}$$

$$\frac{105}{33} \quad \frac{101}{16} \quad \frac{105}{18} \quad \frac{101}{9} \quad \frac{102}{130} \quad \frac{100}{17} \quad \frac{74}{33}$$

$$\frac{57}{33} \quad \frac{42}{14} \quad \frac{40}{8} \quad \frac{39}{33} \quad \frac{30}{33}$$

$$\frac{60}{33} \quad \frac{44}{14} \quad \frac{41}{8} \quad \frac{42}{33} \quad \frac{28}{33}$$

$$\frac{59}{33} \quad \frac{52}{24} \quad \frac{53}{19} \quad \frac{48}{13} \quad \frac{46}{8} \quad \frac{45}{33} \quad \frac{49}{33}$$

Sta	+	π	-	Elev.
		909.65		

44

+50

45

+50

46

+50

47

+50

I.P.	12.97	916.90	0.72	903.93
------	-------	--------	------	--------

48

+95

+75

Lt.

C

Rt.

$$\frac{84}{33} \quad \frac{81}{20} \quad \frac{53}{14} \quad \frac{48}{12} \quad \frac{48}{19} \quad \frac{79}{33}$$

$$\frac{101}{33} \quad \frac{95}{20} \quad \frac{58}{14} \quad \frac{52}{12} \quad \frac{57}{19} \quad \frac{89}{25} \quad \frac{94}{33}$$

$$\frac{91}{39} \quad \frac{95}{28} \quad \frac{102}{23} \quad \frac{58}{15} \quad \frac{53}{10} \quad \frac{57}{17} \quad \frac{86}{33}$$

$$\frac{90}{33} \quad \frac{92}{21} \quad \frac{52}{14} \quad \frac{49}{10} \quad \frac{52}{18} \quad \frac{92}{33}$$

$$\frac{66}{33} \quad \frac{74}{26} \quad \frac{75}{21} \quad \frac{47}{15} \quad \frac{40}{10} \quad \frac{48}{16} \quad \frac{82}{33}$$

$$\frac{48}{33} \quad \frac{52}{24} \quad \frac{59}{22} \quad \frac{60}{21} \quad \frac{37}{15} \quad \frac{32}{9} \quad \frac{37}{16} \quad \frac{68}{20} \quad \frac{71}{33}$$

$$\frac{31}{33} \quad \frac{37}{25} \quad \frac{47}{22} \quad \frac{45}{20} \quad \frac{24}{15} \quad \frac{20}{10} \quad \frac{29}{16} \quad \frac{53}{33}$$

$$\frac{10}{33} \quad \frac{13}{25} \quad \frac{30}{23} \quad \frac{27}{19} \quad \frac{14}{16} \quad \frac{07}{10} \quad \frac{12}{16} \quad \frac{39}{18} \quad \frac{40}{22} \quad \frac{50}{33}$$

$$\frac{109}{330} \quad \frac{117}{23} \quad \frac{131}{22} \quad \frac{131}{19} \quad \frac{123}{15} \quad \frac{119}{10} \quad \frac{126}{15} \quad \frac{149}{20} \quad \frac{154}{22} \quad \frac{157}{330}$$

$$\frac{92}{33} \quad \frac{101}{27} \quad \frac{114}{20} \quad \frac{119}{15} \quad \frac{111}{12} \quad \frac{118}{20} \quad \frac{144}{33}$$

$$\frac{58}{33} \quad \frac{72}{27} \quad \frac{106}{18} \quad \frac{109}{14} \quad \frac{106}{10} \quad \frac{110}{16} \quad \frac{116}{18} \quad \frac{121}{21} \quad \frac{120}{25} \quad \frac{133}{330}$$

Sta	+	x	-	Elev
		716.90		

49

+50

50

+50

+80

+95

51+08.81

B.M.

6.75

910.12

912.15

$$L.O. \quad \frac{98}{93} \quad \frac{95}{27} \quad \frac{102}{15} \quad \frac{101}{13} \quad \frac{108}{18} \quad \frac{119}{20} \quad \frac{118}{20} \quad \frac{108}{25} \quad \frac{108}{33}$$

$$L.O. \quad \frac{12}{33} \quad \frac{24}{24} \quad \frac{89}{16} \quad \frac{95}{18} \quad \frac{100}{20} \quad \frac{109}{20} \quad \frac{105}{23} \quad \frac{94}{24} \quad \frac{73}{30}$$

$$L.O. \quad \frac{21}{33} \quad \frac{26}{26} \quad \frac{87}{15} \quad \frac{94}{18} \quad \frac{99}{21} \quad \frac{102}{23} \quad \frac{106}{32} \quad \frac{67}{28} \quad \frac{51}{29} \quad \frac{50}{30}$$

$$L.O. \quad \frac{43}{33} \quad \frac{56}{24} \quad \frac{67}{20} \quad \frac{106}{13} \quad \frac{101}{10} \quad \frac{96}{21} \quad \frac{102}{22} \quad \frac{107}{25} \quad \frac{97}{28} \quad \frac{81}{32} \quad \frac{61}{50}$$

$$S.S. \quad \frac{91}{33} \quad \frac{87}{18} \quad \frac{104}{15} \quad \frac{100}{9} \quad \frac{96}{20} \quad \frac{99}{20} \quad \frac{103}{33} \quad \frac{89}{31} \quad \frac{85}{50}$$

$$\frac{119}{33} \quad \frac{111}{15} \quad \frac{103}{23} \quad \frac{94}{23} \quad \frac{102}{50}$$

$$\frac{131}{50} \quad \frac{116}{26} \quad \frac{118}{25} \quad \frac{100}{25} \quad \frac{96}{50}$$

Sph. in PP N.W. Cor Kochler Rd. & M^o Menomy St.

