

BK. 29 Dr. 14

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OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Drainage Survey

FOURTH ST. (W.B.C.)

from Wood Ave. To Bald Eagle Av.

Road Acc't. No.

Date Filed 10/26/37

File

PLAN SURVEY

FOURTH ST.

White Bear

Wood Ave to Bold Eagle Ave

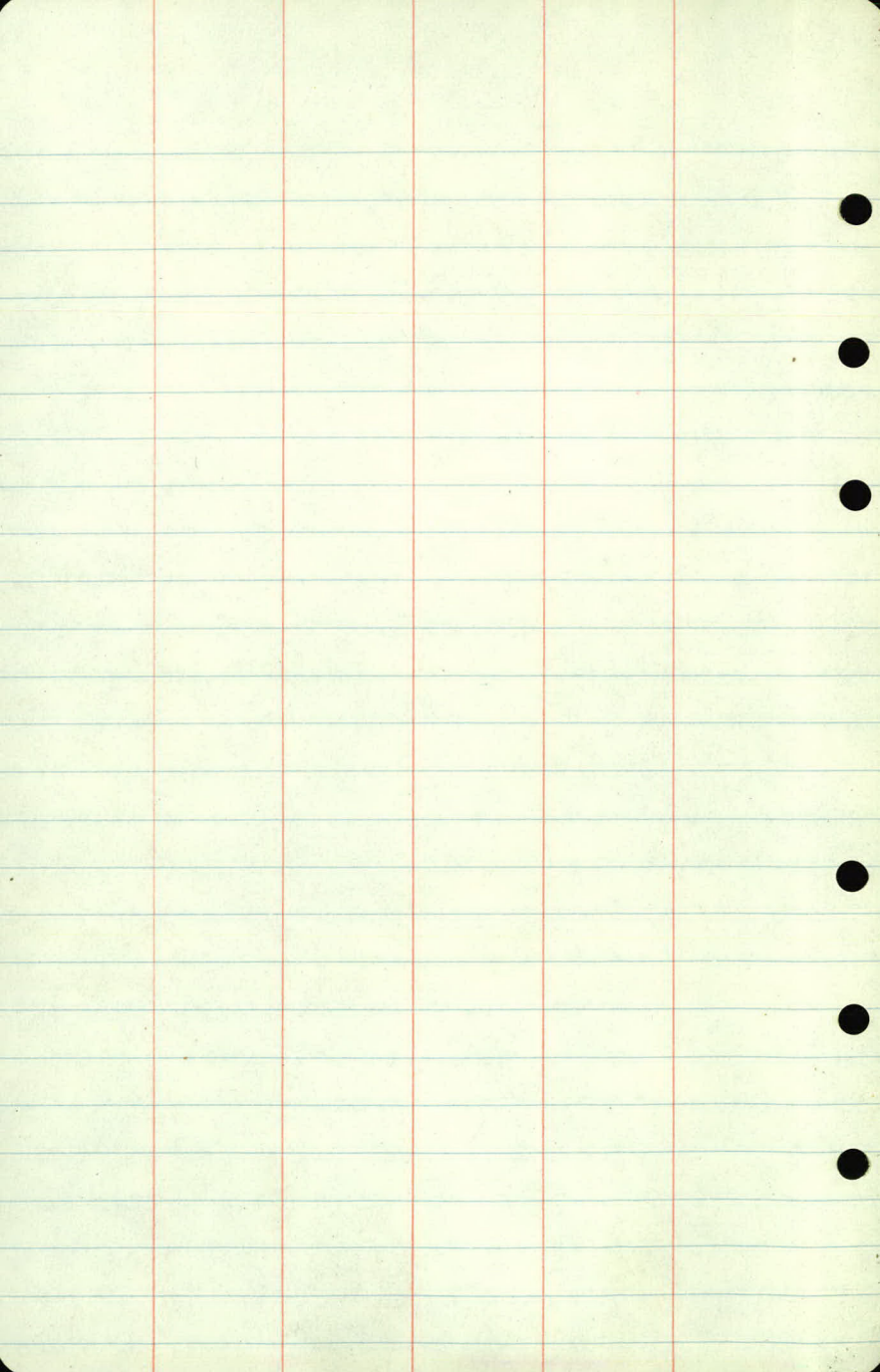
INDEX

Align 1-2

Topog. 3-6

Bench Levels 7-8

Xsections 9-14



Alignment

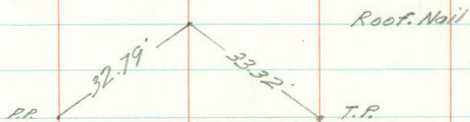
Sta	Point	Alt	Dist
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13	+ 32.97 = E. Bold Eagle Ave.		
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0	+ 100 W.P.A. E. of Wood Ave.		
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6/5/39
K.A.
L.C.
L.B.H.
A.B.

2



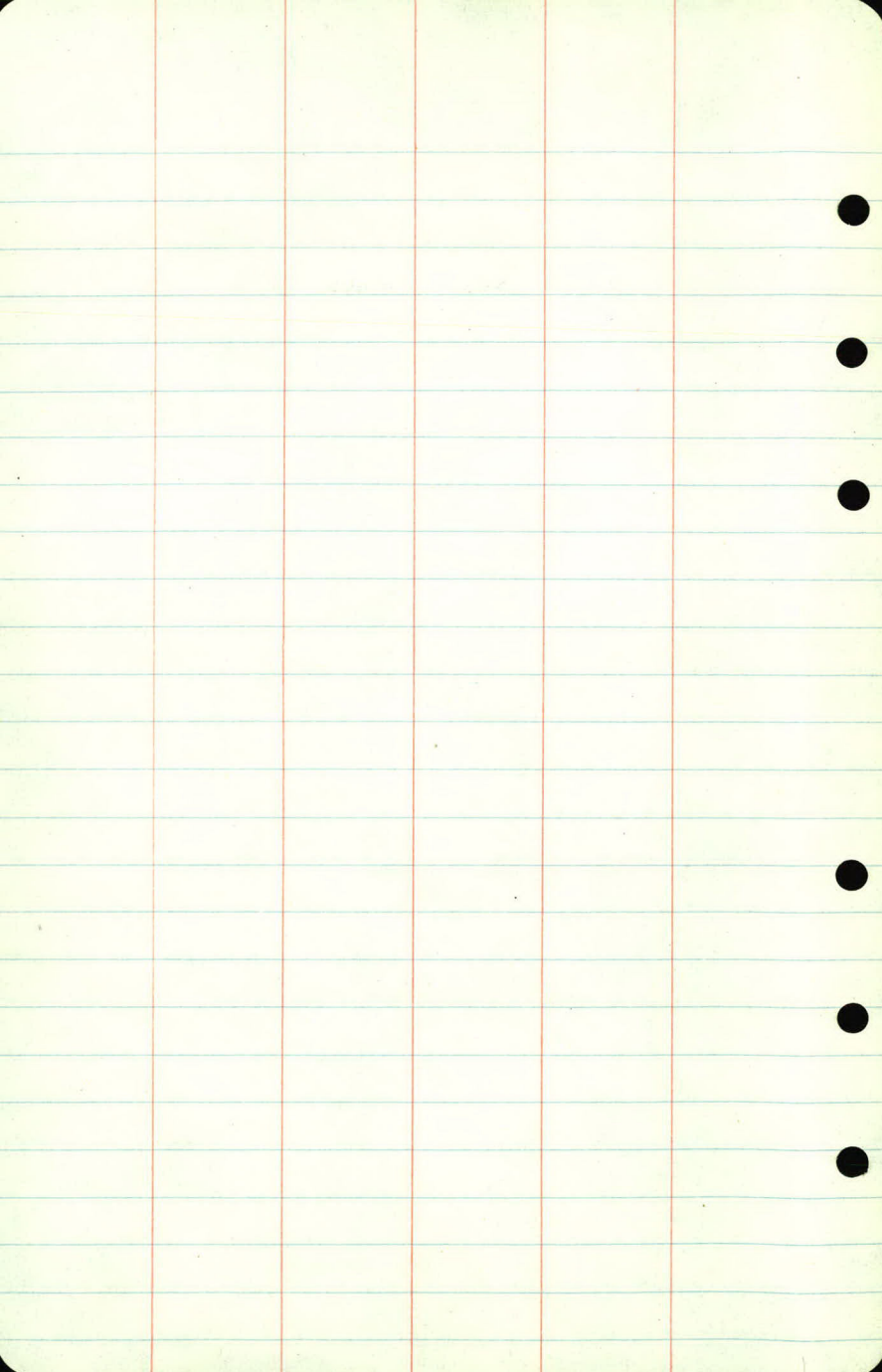
Hyd.
0

29.81°

Nail & Pav.

Sign
Post.

25.67°



Topography

4

- +09.P.P.-21.5'

- 199-End 12" C.M.-18'

- 197-15" B. Elder-22'

- 175-15" B. Elder-22'

- 155-4" B. Elder-22'

- 126-12" B. Elder-21'

- 130-Ent.

- 101-10" B. Elder-21'

- S.W.-30.7'-26.7'

- 195-4 3' Walk.

- 180-P.P.-21.5'

- 173-End Hedge-35'

- 170-10" Basswood-21'

- 191-10" Butternut-21'

- 120-15" Linden-21'

- 106-Bas. Loss Bush Hedge-34'

- 102-Ent.-10" X 12" C.M.-18'

2

- 197-8" Butternut-21'

- 178-2 3' Walk

- 173-10" Basswood-21'

- 160-Ent.-10" X 12" C.M.-18'

- 199-P.P.-21.5'

- 137-Ent.-12" X 8" Vit.-18" N. Good.

- 131-15" Oak-35'

- 112-4" Chin. Elm-23'

1

- 189-4" Chin. Elm-23'

- 180-4 3' Walk.

- 172-8" Chin. Elm-23'

- 118-Hyd.-23.5'

- 115-Bas. S.W.-27.31'

- 115-P.P.-21'

0+00

- 198-T.P.-21'

- 125-Surface Drain-19'

- 195-Water Valve-19.5'

- 167-4 3' Walk- 5 ft. as-31-33'

- 142-Fc. Cor. 29'

- 190-W. End Cur. N.-21' ?

- 180-T.P.-21'

- 143-18" Oak-35'

- 138-N.W. Cor. No. 44-15 W. Cor.

- 132-Ent.-1" X 12" C.M.-18'

- 118-Sur. Drain-16.8'

- 140-T.P.-20.5'

- 196-3' Tw. Oak-25'

- 179-3' Tw. Oak-23.5'

- 156-4" Oak-28'

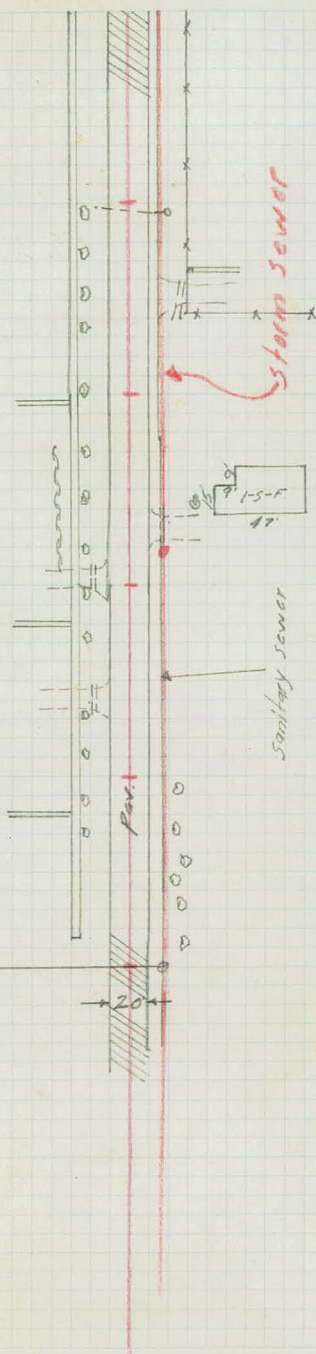
- 147-3" Oak-29'

- 135-4" Tw. Oak-25'

- 114-5" Tw. B. Elder-27'

- 19.H.-16'

Sanitary sewer



Sanitary sewer

- 151-W. Edge Ent.
- 193-R.P.-22.5'

- 11
- 115-R. 3' Walk
 - 121-W.-291-25.1'
 - 190-4" Elm-34'
 - 183-R.P.-22'
 - 172-10 Oak-53'
 - 161-R. 2' Walk
 - 153-6" Elm-34'
 - 147-Ent.
 - 151-End Hedge-31'
 - 121-12" Oak-30'

- 10
- 195-Beg. Lilac Hedge-30'
 - 193-R.P.-23'
 - 171-R Drive
 - 151-R. 4' Walk

- 9
- 159-R Drive
 - 140-Hedge-28'
 - 137-R.P.-23.5'
 - 130-12" Elm-34'
 - 118-R Drive
 - 109-End Hedge-32'
 - 105-15" Elm-34'
 - 102-Water Valve-25.7'
- 8
- 5.W.-297-25.9'

- 7
- 156-15" Elm-34'
 - 179-R. 3' Walk
 - 160-15" Elm-34'
 - 158-Fe t Hedge-33' Cor.
 - 100-R. 3' Walk
 - R.P.-24'

- 6
- 190-8" Walk-35'
 - 172-R Drive
 - 162-Lilac Hedge-26'
 - 144-5" Trip Larksh-23'-12" Elm-25'
 - 130-R. 2' Walk
 - 115-15" Elm-35'
 - 109-Water Valve-24'
 - 103-Hyd.-22.7'
 - 5.W.-303-26.5'
 - 186-Water Valve-18'
 - 186-5.W. Drain Iron Grate
 - 179-Beg. 5.W. 30.5-26.5'
 - 183-5" End Iron Culv.-35'
 - 185 W End 10" M.P.-35'
 - 159-12" 5.W. Culv.-25-31'
 - 153-5 End 5.W. 30.3-26.3'
 - 149-R.P.-22.7'

- 5
- 5.W.-30.5-26.5'

151-M.H.-16'

- 150-T.P.-30.5'
- 197-15" Elder-31' Beg. Row Trees
- 190-3" Elm-30.5'
- 130-Cor. 6.R.Fc.-28'

4/5' Drive

- 185-R.P.-43'
- 182-Cor. Hedge-31-41'
- 168-Water Valve-32.5'
- 150-R. 3' Walk-31'
- 150-Beg. Hedge-30'
- 131-R Drive

118-T.P.-20'

- 105-20" Oak-31'
- 102-Cor. Hedge-30'

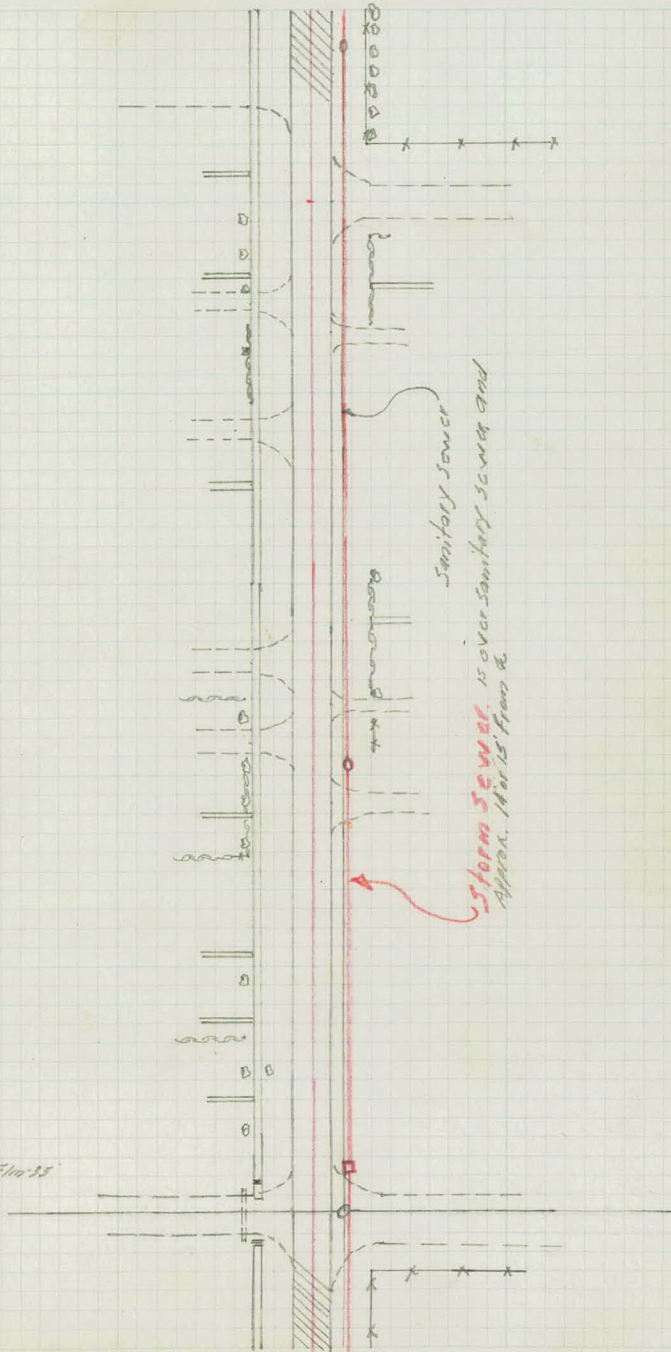
- 101-R. 3' Walk-30'
- 167-Water Valve-24'
- 145-T.P.-20.5'
- 142-R.S. Hedge-30.5'
- 141-15" Elder-32'
- 136-R Drive
- 129-End Fe-30.5'
- 111-Beg. Wood Fe-28.5'
- 107-3rd Drain-16.5'

185-R Drive

188-T.P.-20.5'

- 196-5.W. Drain-132'
- 180-E. Edge Rd-35'
- 171-M.H.-13.2'
- 155-W. Edge Rd-14'
- 140-Fc. 6" R-27.5'
- 110-Fe. Rd-1'
- 120-T.P.-21'

170-15'E/10'S



Storm Sewer. is over Sanitary Sewer and
Approx. 14' to 15' from the
Sanitary Sewer

Stormswept

- 116 - M.H. 255'
- 122 - P.R. - 24'
- 111 - M.H. 315'
- 108 - P.P. 22'
- 105 - Cor. S.W. - 245'

13

- 197 - P.V. 11'
- 128 - Hyd. - 215'
- 103 - B.C. S.W. 16nd Cong. - 29.7'
- 170 - Cor. Sta - 43'
- 158 - Cor. Sta - 12'
- 151 - Cong. - 29.1'
- 139 - Cong. - 10'
- 111 - Cor. C.W. - 35'
- 106 - S.E. Cor. 12nd Ho. - 5.5'

12

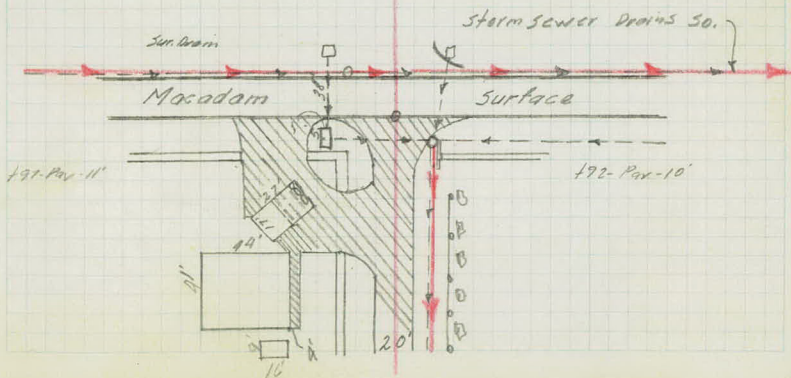
- 125 - M.H. 00'
- 150 - C.B. - 23'
- 125 - P.V. - 36.6'
- 110 - M.H. - 157'
- 106 - T.P. 215'

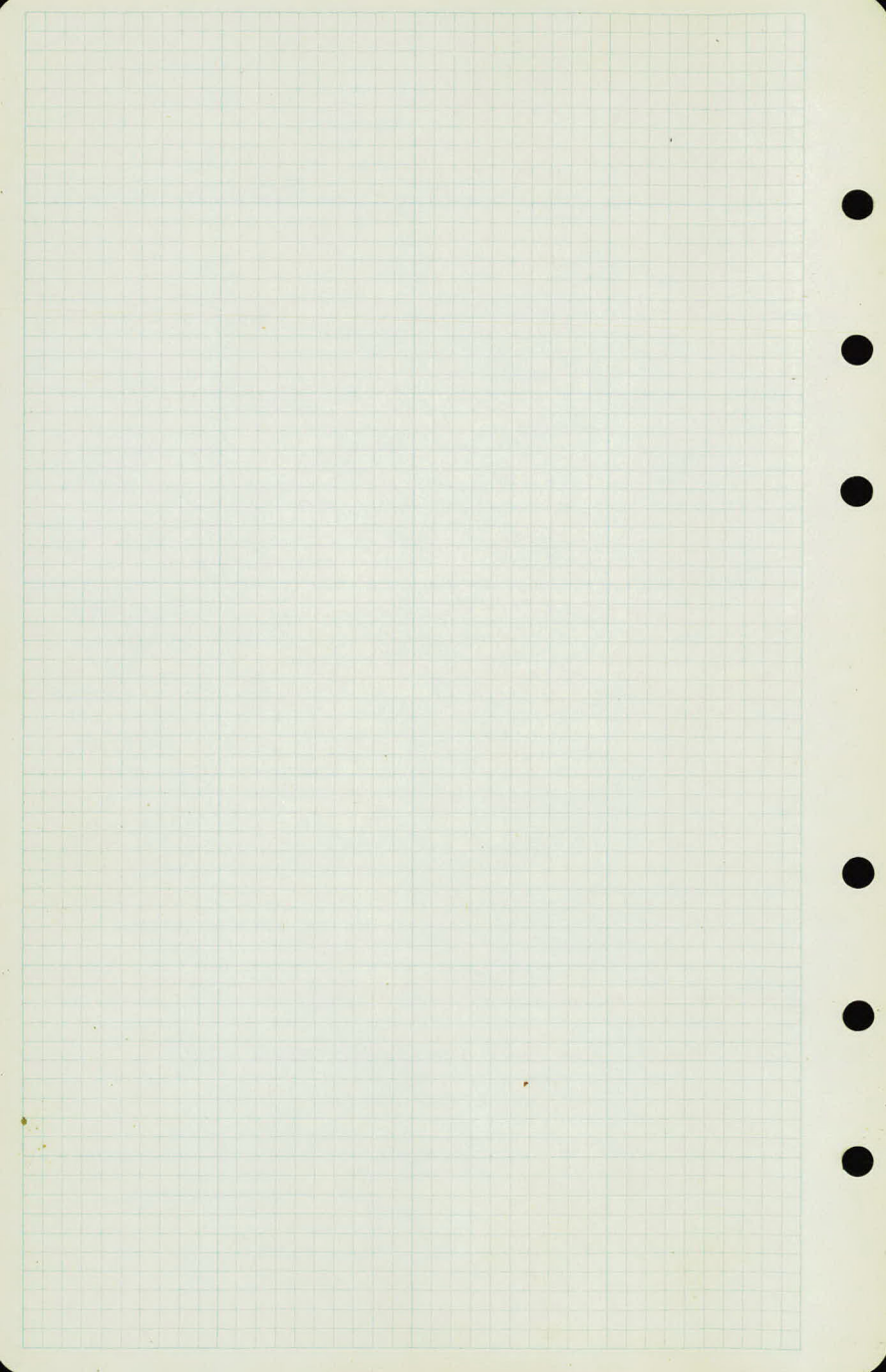
W Edge 4.5' S.W. - 22'

- 192 - W End 12th Ho. - 19'
- 185 - End 12th Ho. - 31'
- 181 - End 12th Ho. - 28'

Fe. - 28'

C. B. ^s on East Side of Rd. Drain to W. Side of Rd.





Bench Levels.

Sta.	+	π	-	Elev.
B.M.	5.60	938.89 ✓		✓ 933.29
B.M.	1.70	938.40 ✓	2.19	936.70 ✓
B.M.	1.30	937.80 ✓	1.90	936.50 ✓
B.M.			1.42	936.38 ✓

8

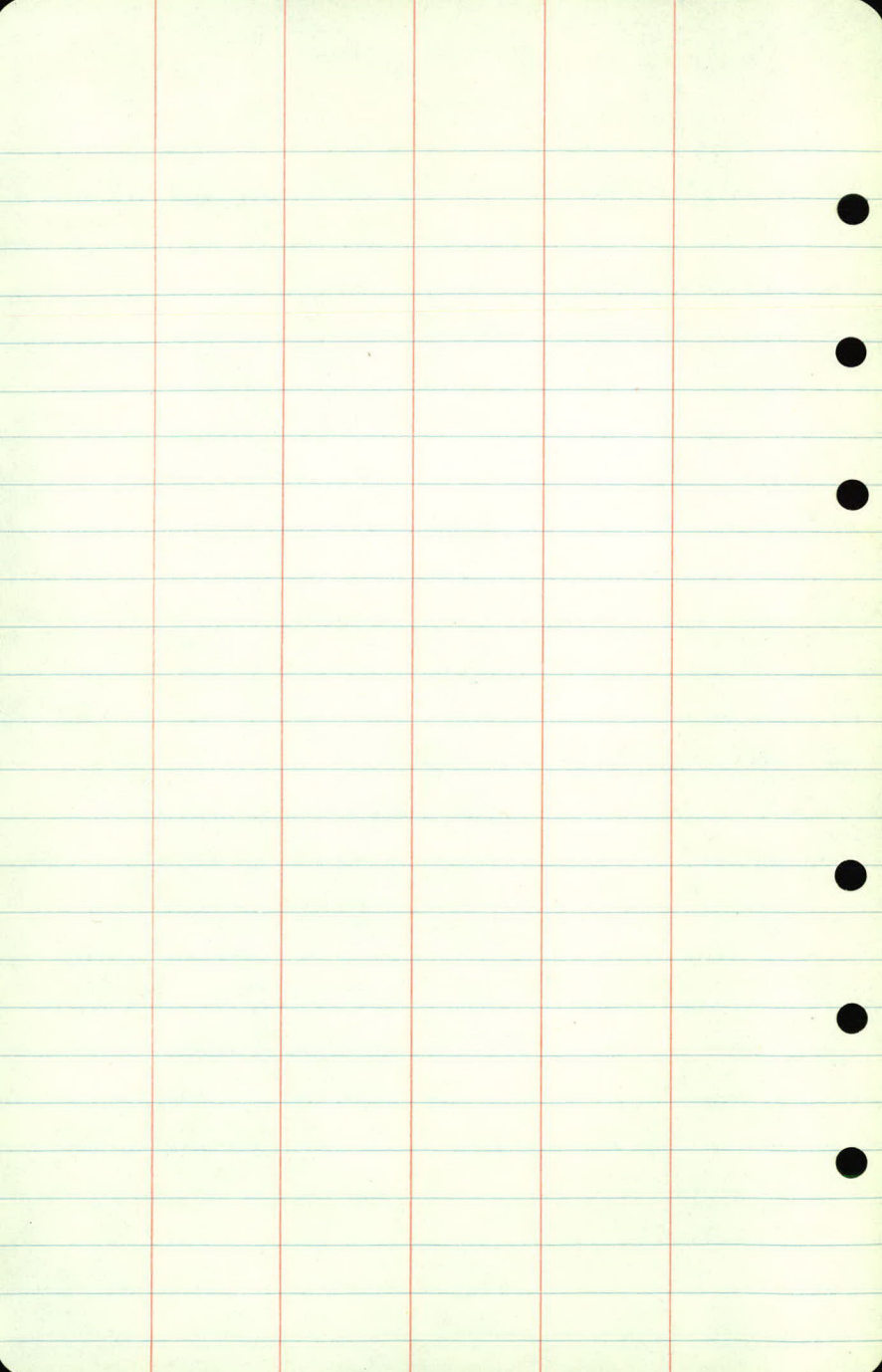
Description

U.S.G.S. Ment. in St. Marys School Yard.

Top Hyd. N.W. Cor. 4th & Bald Eagle Ave.

Top Hyd. N.E. Cor. 4th & Campbell Ave.

Top Hyd. N.E. Cor. 4th & Wood Ave.



X Sections

Sta	+	T	-	Elev.
B.M.	1.58	937.96		936.38

0	+00			32.30
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	+15			32.30
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	+55			32.38
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1				32.40
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Flow Line W. End Ent. Culv.

	+50			32.39
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Flow Line W. End Ent. Culv.

Flow Line W. End Ent. Culv.

2				32.47
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Flow Line E. End Ent. Culv.

T.P.	5.20	937.74	5.42	932.54
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	+18			32.36
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5/6/39
K.H.
L.B.H.
L.G.
H.B.

10

Lt

Lt

Lt

Top Hyd. N.E. Cor Wood + 4th

$\frac{50}{50}$ $\frac{54}{20}$ $\frac{575}{10}$ $\frac{546}{10}$ $\frac{575}{10}$ $\frac{568}{10}$ $\frac{16.2}{10}$ $\frac{54}{26}$ $\frac{57}{50}$

$\frac{46}{50}$ $\frac{46}{40}$ $\frac{50}{31}$ $\frac{508}{270}$ $\frac{52}{23}$ $\frac{573}{10}$ $\frac{566}{10}$ $\frac{573}{10}$ $\frac{54}{19}$ $\frac{57}{25}$ $\frac{52}{28}$ $\frac{57}{41}$ $\frac{61}{50}$

$\frac{41}{50}$ $\frac{45}{37}$ $\frac{502}{307}$ $\frac{506}{267}$ $\frac{51}{21}$ $\frac{61}{17}$ $\frac{565}{10}$ $\frac{558}{10}$ $\frac{567}{13}$ $\frac{55}{17}$ $\frac{58}{22}$ $\frac{43}{32}$ $\frac{56}{50}$ $\frac{58}{50}$

$\frac{41}{50}$ $\frac{46}{37}$ $\frac{505}{307}$ $\frac{546}{267}$ $\frac{50}{20}$ $\frac{60}{17}$ $\frac{57}{13}$ $\frac{563}{10}$ $\frac{556}{10}$ $\frac{569}{13}$ $\frac{56}{17}$ $\frac{62}{24}$ $\frac{43}{31}$ $\frac{56}{50}$ $\frac{58}{50}$

31.66
630

$\frac{47}{50}$ $\frac{508}{305}$ $\frac{508}{265}$ $\frac{51}{21}$ $\frac{62}{18}$ $\frac{55}{19}$ $\frac{555}{10}$ $\frac{557}{10}$ $\frac{557}{14}$ $\frac{57}{14}$ $\frac{63}{17}$ $\frac{56}{22}$ $\frac{58}{27}$ $\frac{65}{44}$ $\frac{61}{50}$

32.16
578

31.81
615

$\frac{53}{50}$ $\frac{524}{305}$ $\frac{523}{265}$ $\frac{52}{21}$ $\frac{61}{18}$ $\frac{55}{15}$ $\frac{545}{10}$ $\frac{549}{10}$ $\frac{562}{14}$ $\frac{55}{17}$ $\frac{59}{22}$ $\frac{53}{27}$ $\frac{58}{29}$ $\frac{63}{40}$ $\frac{62}{50}$

31.66
63

(700 Grains)

$\frac{52}{50}$ $\frac{51}{35}$ $\frac{50}{30.6}$ $\frac{502}{26.6}$ $\frac{51}{21}$ $\frac{60}{18}$ $\frac{54}{13}$ $\frac{53}{10}$ $\frac{538}{10}$ $\frac{534}{13}$ $\frac{54}{16}$ $\frac{67}{17}$ $\frac{66}{21}$ $\frac{52}{30}$ $\frac{58}{50}$ $\frac{60}{50}$

Sta	+	π ✓ 297.74	-	Elev.
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2	+60			32.53
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3				32.58
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	+30			32.61
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	+50			32.66
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	+95			32.69
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4				32.70
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	+50			32.76
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5				32.85
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	+50			32.95
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	+55	W End C.M.		
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	+71			32.87
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21

2

21

$\frac{58}{50} \frac{57}{34} \frac{507}{306} \frac{509}{266} \frac{52}{22} \frac{61}{17} \frac{53}{13} \frac{526}{10} \frac{521}{10} \frac{529}{10} \frac{51}{13} \frac{57}{17} \frac{55}{23} \frac{49}{34} \frac{45}{50}$

$\frac{51}{50} \frac{508}{306} \frac{51}{266} \frac{50}{22} \frac{60}{17} \frac{54}{19} \frac{516}{10} \frac{516}{10} \frac{523}{10} \frac{53}{13} \frac{60}{18} \frac{56}{28} \frac{51}{50}$

$\frac{51}{50} \frac{513}{306} \frac{515}{266} \frac{52}{18} \frac{516}{10} \frac{513}{10} \frac{519}{13} \frac{52}{21} \frac{61}{33} \frac{51}{50}$

$\frac{48}{50} \frac{51}{306} \frac{508}{266} \frac{53}{20} \frac{61}{19} \frac{61}{18} \frac{52}{13} \frac{512}{10} \frac{508}{10} \frac{517}{19} \frac{54}{30} \frac{53}{50}$

(604)

$\frac{54}{50} \frac{54}{37} \frac{502}{306} \frac{502}{266} \frac{51}{20} \frac{59}{17} \frac{50}{14} \frac{51}{10} \frac{508}{10} \frac{517}{13} \frac{50}{17} \frac{55}{18} \frac{639}{20} \frac{62}{22} \frac{59}{29} \frac{49}{35} \frac{45}{50}$

(604)

$\frac{51}{50} \frac{52}{36} \frac{497}{306} \frac{502}{266} \frac{49}{22} \frac{64}{19} \frac{706}{17} \frac{51}{15} \frac{508}{10} \frac{504}{10} \frac{515}{12} \frac{50}{17} \frac{53}{20} \frac{60}{25} \frac{57}{31} \frac{61}{50}$

$\frac{49}{50} \frac{49}{37} \frac{489}{306} \frac{493}{266} \frac{50}{21} \frac{60}{19} \frac{60}{17} \frac{53}{13} \frac{506}{10} \frac{499}{10} \frac{508}{10} \frac{47}{14} \frac{53}{24} \frac{56}{29} \frac{56}{50}$

$\frac{44}{50} \frac{41}{37} \frac{488}{306} \frac{492}{266} \frac{49}{21} \frac{59}{19} \frac{55}{18} \frac{49}{13} \frac{496}{10} \frac{489}{10} \frac{499}{10} \frac{48}{17} \frac{52}{26} \frac{52}{32} \frac{54}{30}$

4.6

$\frac{43}{50} \frac{41}{38} \frac{46}{31} \frac{498}{306} \frac{499}{266} \frac{44}{21} \frac{53}{20} \frac{55}{18} \frac{47}{16} \frac{481}{10} \frac{479}{10} \frac{487}{10} \frac{53}{25} \frac{50}{28} \frac{50}{50}$

32.06
566
35

32.72

20.72

$\frac{47}{50} \frac{46}{22} \frac{495}{10} \frac{481}{10} \frac{507}{10} \frac{502}{10} \frac{1702}{19} \frac{49}{50}$
(700 M.H.) Fling

Sta.	+	π	-	Elev.
		937.74		
5	483	E. End Culv.		
	+96			33.00
6				33.00
B.M.			1.26	936.48 ✓
	+50			32.95
	+72			33.10
7				33.13
	+50			33.15
T.P.	512	938.34 ✓	4.52	933.22 ✓
8				33.22
	+07			33.22
	+18			33.25
	+36			33.30

(936.50)

LT

K

RT

32.01

$$\begin{array}{r} 5.73 \\ 3.51 \\ \hline \end{array}$$

-32.61

Top Grade
29.77

$\frac{51}{50}$ $\frac{47}{34}$ $\frac{474}{304}$ $\frac{49}{264}$ $\frac{468}{25}$ $\frac{45}{19}$ $\frac{51}{15}$ $\frac{483}{10}$ $\frac{474}{10}$ $\frac{484}{10}$ $\frac{513}{13}$ $\frac{797}{16}$ $\frac{46}{25}$ $\frac{41}{31}$ $\frac{46}{31}$ $\frac{45}{50}$

$\frac{50}{50}$ $\frac{51}{40}$ $\frac{479}{304}$ $\frac{483}{24}$ $\frac{47}{25}$ $\frac{46}{20}$ $\frac{51}{16}$ $\frac{481}{10}$ $\frac{474}{10}$ $\frac{483}{10}$ $\frac{42}{14}$ $\frac{42}{28}$ $\frac{51}{50}$

Top Hyd N.E. Cor. Campbell & 4th

$\frac{48}{50}$ $\frac{483}{302}$ $\frac{479}{262}$ $\frac{49}{19}$ $\frac{53}{18}$ $\frac{52}{16}$ $\frac{48}{15}$ $\frac{476}{10}$ $\frac{479}{10}$ $\frac{476}{10}$ $\frac{49}{12}$ $\frac{46}{20}$ $\frac{50}{28}$ $\frac{51}{50}$

$\frac{47}{50}$ $\frac{49}{37}$ $\frac{474}{302}$ $\frac{479}{262}$ $\frac{49}{17}$ $\frac{471}{10}$ $\frac{469}{10}$ $\frac{472}{10}$ $\frac{45}{12}$ $\frac{49}{19}$ $\frac{42}{23}$ $\frac{49}{50}$

$\frac{47}{50}$ $\frac{47}{43}$ $\frac{474}{302}$ $\frac{483}{262}$ $\frac{50}{19}$ $\frac{54}{17}$ $\frac{49}{14}$ $\frac{469}{10}$ $\frac{461}{10}$ $\frac{467}{10}$ $\frac{45}{11}$ $\frac{51}{20}$ $\frac{47}{23}$ $\frac{47}{50}$

$\frac{50}{50}$ $\frac{51}{38}$ $\frac{482}{30}$ $\frac{483}{26.0}$ $\frac{50}{19}$ $\frac{54}{17}$ $\frac{48}{15}$ $\frac{478}{10}$ $\frac{459}{10}$ $\frac{469}{10}$ $\frac{45}{12}$ $\frac{51}{19}$ $\frac{45}{23}$ $\frac{48}{31}$ $\frac{48}{50}$

$\frac{51}{50}$ $\frac{54}{35}$ $\frac{535}{30}$ $\frac{543}{26}$ $\frac{55}{20}$ $\frac{60}{18}$ $\frac{60}{16}$ $\frac{54}{14}$ $\frac{52}{10}$ $\frac{512}{10}$ $\frac{524}{10}$ $\frac{52}{13}$ $\frac{58}{17}$ $\frac{58}{25}$ $\frac{59}{50}$

(generate)

$\frac{512}{10}$ $\frac{521}{13}$ $\frac{52}{16}$ $\frac{603}{17}$ $\frac{603}{27}$ $\frac{57}{27}$ $\frac{60}{29}$ $\frac{57}{50}$

$\frac{51}{50}$ $\frac{525}{299}$ $\frac{536}{259}$ $\frac{54}{19}$ $\frac{514}{10}$ $\frac{519}{10}$

$\frac{48}{50}$ $\frac{49}{34}$ $\frac{522}{299}$ $\frac{526}{259}$ $\frac{53}{20}$ $\frac{56}{18}$ $\frac{58}{15}$ $\frac{512}{10}$ $\frac{504}{10}$ $\frac{511}{10}$ $\frac{53}{22}$ $\frac{51}{33}$ $\frac{51}{50}$

sto	+	π	-	5/100
		938.34		

8	+59			33.34
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	+80			33.34
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9				33.37
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	+50			33.43
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10				33.42
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	+50			33.44
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T.P.	4.28	✓ 938.18	4.44	✓ 933.90
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11				33.45
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	+50			33.45
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	+75			33.45
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	+81	Mangholz		
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12				33.45
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Lt.

L

Rt.

$\frac{48}{50}$ $\frac{517}{257}$ $\frac{526}{257}$ $\frac{51}{19}$ $\frac{509}{10}$ $\frac{50}{10}$ $\frac{509}{10}$ $\frac{49}{12}$ $\frac{49}{16}$ $\frac{53}{19}$ $\frac{51}{21}$ $\frac{50}{28}$ $\frac{48}{50}$

$\frac{35}{50}$ $\frac{42}{40}$ $\frac{511}{297}$ $\frac{523}{257}$ $\frac{50}{25}$ $\frac{55}{18}$ $\frac{508}{10}$ $\frac{50}{10}$ $\frac{506}{10}$ $\frac{51}{18}$ $\frac{49}{21}$ $\frac{46}{50}$

$\frac{36}{50}$ $\frac{49}{43}$ $\frac{521}{296}$ $\frac{529}{256}$ $\frac{50}{22}$ $\frac{504}{10}$ $\frac{497}{10}$ $\frac{501}{10}$ $\frac{48}{15}$ $\frac{49}{19}$ $\frac{47}{22}$ $\frac{45}{29}$ $\frac{49}{50}$

$\frac{37}{50}$ $\frac{44}{35}$ $\frac{523}{285}$ $\frac{527}{255}$ $\frac{52}{19}$ $\frac{498}{10}$ $\frac{491}{10}$ $\frac{499}{10}$ $\frac{47}{12}$ $\frac{48}{19}$ $\frac{52}{50}$

$\frac{42}{50}$ $\frac{48}{31}$ $\frac{521}{285}$ $\frac{524}{255}$ $\frac{52}{19}$ $\frac{51}{17}$ $\frac{496}{15}$ $\frac{492}{10}$ $\frac{50}{12}$ $\frac{48}{19}$ $\frac{49}{29}$ $\frac{52}{50}$

$\frac{39}{50}$ $\frac{42}{34}$ $\frac{48}{33}$ $\frac{518}{282}$ $\frac{521}{252}$ $\frac{51}{24}$ $\frac{50}{19}$ $\frac{499}{10}$ $\frac{49}{10}$ $\frac{496}{10}$ $\frac{48}{16}$ $\frac{51}{20}$ $\frac{45}{25}$ $\frac{43}{29}$ $\frac{43}{50}$

Top Water Valve Rt.

$\frac{43}{50}$ $\frac{48}{30}$ $\frac{497}{292}$ $\frac{506}{252}$ $\frac{48}{23}$ $\frac{49}{18}$ $\frac{48}{15}$ $\frac{453}{10}$ $\frac{473}{10}$ $\frac{475}{10}$ $\frac{45}{23}$ $\frac{47}{50}$

$\frac{41}{50}$ $\frac{47}{30}$ $\frac{494}{292}$ $\frac{498}{252}$ $\frac{47}{24}$ $\frac{48}{18}$ $\frac{483}{10}$ $\frac{473}{10}$ $\frac{482}{10}$ $\frac{50}{15}$ $\frac{51}{19}$ $\frac{49}{22}$ $\frac{46}{30}$ $\frac{44}{50}$

$\frac{46}{50}$ $\frac{49}{34}$ $\frac{495}{291}$ $\frac{498}{252}$ $\frac{52}{21}$ $\frac{480}{10}$ $\frac{472}{10}$ $\frac{482}{10}$ $\frac{50}{16}$ $\frac{52}{20}$ $\frac{46}{28}$ $\frac{47}{50}$

33.17 25.86
 $\frac{501}{Top}$ $\frac{1630}{Flowing}$

$\frac{42}{50}$ $\frac{48}{41}$ $\frac{48}{33}$ $\frac{492}{29}$ $\frac{495}{25}$ $\frac{49}{23}$ $\frac{50}{14}$ $\frac{451}{10}$ $\frac{473}{10}$ $\frac{480}{10}$ $\frac{50}{14}$ $\frac{55}{19}$ $\frac{47}{28}$ $\frac{47}{50}$

Sta	+	X	-	Elev
		938.18		
12	+50			33.46
	+83			33.42
	+92			33.43
13				33.43
	+04.5			
	+10			
	+11			
	+12			33.39
	+22.97			33.46
	+32.97			33.44

Flow Line Storm Sewer East side Bald Eagle Ave.

B.M.

1.50

936.68

936.70

Lt

L

Rt.

$$\begin{array}{r} 453 \\ 50 \end{array} \quad \begin{array}{r} 469 \\ 25 \end{array} \quad \begin{array}{r} 485 \\ 10 \end{array} \quad \begin{array}{r} 472 \\ 10 \end{array} \quad \begin{array}{r} 482 \\ 20 \end{array} \quad \begin{array}{r} 54 \\ 28 \end{array} \quad \begin{array}{r} 49 \\ 50 \end{array} \quad \begin{array}{r} 45 \end{array}$$

$$\begin{array}{r} 452 \\ 45 \end{array} \quad \begin{array}{r} 460 \\ 34 \end{array} \quad \begin{array}{r} 464 \\ 24 \end{array} \quad \begin{array}{r} 495 \\ 17 \end{array} \quad \begin{array}{r} 489 \\ 10 \end{array} \quad \begin{array}{r} 476 \\ 10 \end{array} \quad \begin{array}{r} 485 \\ 13 \end{array} \quad \begin{array}{r} 49 \\ 19 \end{array} \quad \begin{array}{r} 56 \\ 28 \end{array} \quad \begin{array}{r} 50 \\ 50 \end{array} \quad \begin{array}{r} 46 \end{array}$$

(Culv)

$$\begin{array}{r} 456 \\ 50 \end{array} \quad \begin{array}{r} 458 \\ 38 \end{array} \quad \begin{array}{r} 458 \\ 287 \end{array} \quad \begin{array}{r} 464 \\ 247 \end{array} \quad \begin{array}{r} 46 \\ 23 \end{array} \quad \begin{array}{r} 47 \\ 16 \end{array} \quad \begin{array}{r} 49 \\ 10 \end{array} \quad \begin{array}{r} 475 \\ 10 \end{array} \quad \begin{array}{r} 485 \\ 16 \end{array} \quad \begin{array}{r} 50 \\ 19 \end{array} \quad \begin{array}{r} 66 \\ 21 \end{array} \quad \begin{array}{r} 56 \\ 28 \end{array} \quad \begin{array}{r} 49 \\ 50 \end{array} \quad \begin{array}{r} 46 \end{array}$$

$$\begin{array}{r} 452 \\ 50 \end{array} \quad \begin{array}{r} 462 \\ 246 \end{array} \quad \begin{array}{r} 47 \\ 22 \end{array} \quad \begin{array}{r} 476 \\ 114 \end{array} \quad \begin{array}{r} 475 \\ 112 \end{array} \quad \begin{array}{r} 493 \\ 20 \end{array} \quad \begin{array}{r} 49 \\ 221 \end{array} \quad \begin{array}{r} 457 \\ 50 \end{array} \quad \begin{array}{r} 450 \end{array}$$

some 95 3/4, 13

$$\begin{array}{r} 33.18 \\ 50 \\ \text{Tapwater} \\ 32.92 \\ 526 \\ \text{Tapwater} \end{array} \quad \begin{array}{r} 30.43 \\ 7.75 \\ \text{Flow Line} \\ 30.98 \\ 720 \\ \text{Flow Line} \end{array}$$

$$\begin{array}{r} 51 \\ 50 \end{array} \quad \begin{array}{r} 524 \\ 42 \end{array} \quad \begin{array}{r} 49 \\ 24 \end{array} \quad \begin{array}{r} 511 \\ 171 \end{array} \quad \begin{array}{r} 479 \\ 17 \end{array} \quad \begin{array}{r} 507 \\ 23 \end{array} \quad \begin{array}{r} 485 \\ 36 \end{array} \quad \begin{array}{r} 48 \\ 50 \end{array} \quad \begin{array}{r} 47 \end{array}$$

$$\begin{array}{r} 490 \\ 50 \end{array}$$

$$\begin{array}{r} 472 \end{array}$$

$$\begin{array}{r} 498 \\ 50 \end{array}$$

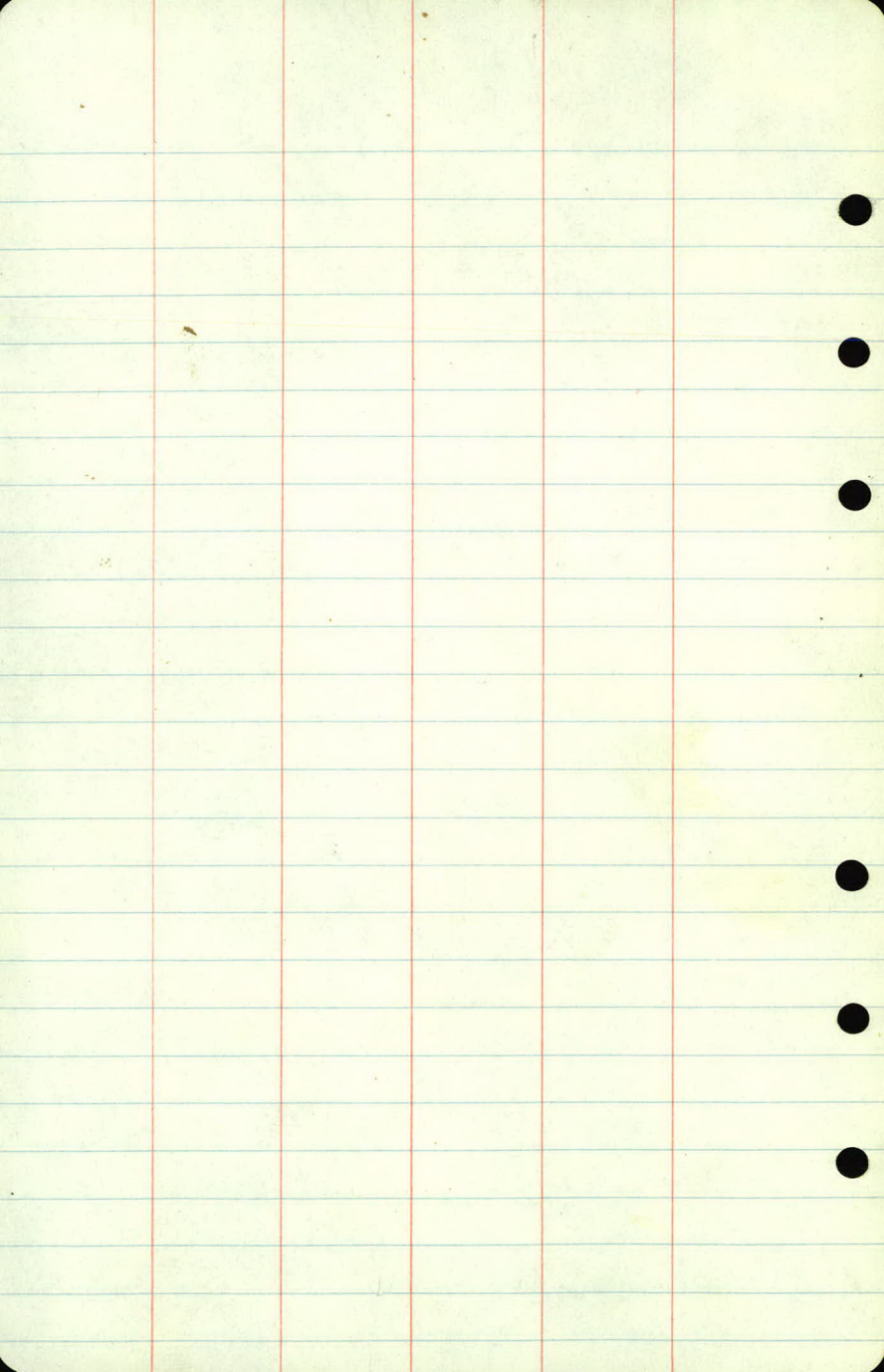
$$\begin{array}{r} 479 \\ 50 \end{array}$$

$$\begin{array}{r} 474 \end{array}$$

$$\begin{array}{r} 489 \\ 50 \end{array}$$

1003

Top Hyd. N.W. Cor. 4th & Bald Eagle Ave.



Gutter stakes

1st st.

White Bear.

Sta	+	π	-	Grade	
B.M.	1.24	937.62			936.38

0	+1.5				31.97
---	------	--	--	--	-------

	+5.0				31.9
--	------	--	--	--	------

1					31.80
---	--	--	--	--	-------

	+5.0				31.7
--	------	--	--	--	------

2					31.6
---	--	--	--	--	------

	+5.0				31.5
--	------	--	--	--	------

3					31.4
---	--	--	--	--	------

	+5.0				31.3
--	------	--	--	--	------

4					31.2
---	--	--	--	--	------

T.P.	6.53	937.70	6.45		931.17
------	------	--------	------	--	--------

	+5.0				31.45
--	------	--	--	--	-------

5					31.7
---	--	--	--	--	------

9/27/39
K.F.
L.G.
M.B.
M.C.G.

Cor. Rod

Top Hyd. N.E. Cor. A¹⁰ Wood.

5.72 ✓

5.82 ✓

5.92 ✓

6.02 ✓

6.12 ✓

6.22 ✓

6.32 ✓

6.42 ✓

6.25 ✓

6.0 ✓

Sta. + π - Grade

997.70

5 1.50

31.25

B.M.

12.0

996.50

996.50

Gr. Rod.

5.75

Top Hyd. N.E. cor. Campbell Ave. + 4th St.

