

BK 32 Dr. 14

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

_____ Plan _____ Survey

_____ Clark Ave _____

From _____ Lake Ave _____ To _____ First St _____

Road Acc't. No. _____ White Bear City

Date Filed _____ File _____

BK 32 Dr 14

Plan Survey
Clark Ave
from Lake Ave.
to First St.
W. B. C.

Alignment-1-2

Topography-3-5

Xsections 6-8

5/9/40

R.P.
A.M.
L.G.
C.F.

Plans Completed 5/20/40
HAW W.B.C. ADC

5+61.33 $\pm$ First

3+09.73 $\pm$ First

0+00 $\pm$ Lake

- lamp post

62.97

Mail

82, 82

a street.
sign

off

Lamp Post.

Conc. Post
Mail Box

Mail Box

- Lamp Post

34/62

51.90

Nail

58.00

- o Lamp Post

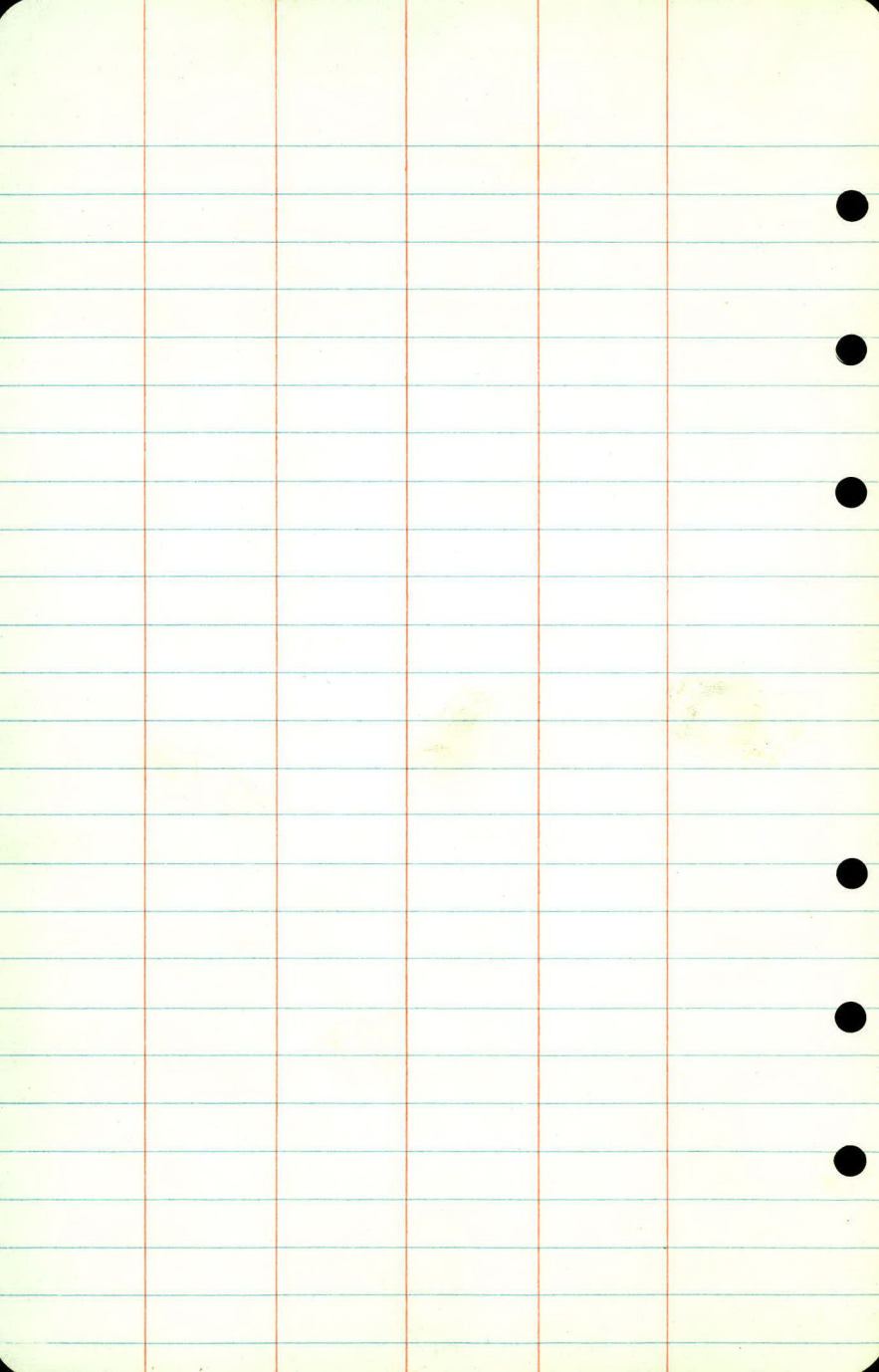
Cor
Wall

4.2.14

Nail

23.33

Arc Light Pole



Topography

Clark Ave

from Lake Ave

to First St.

+50

3

+50

2

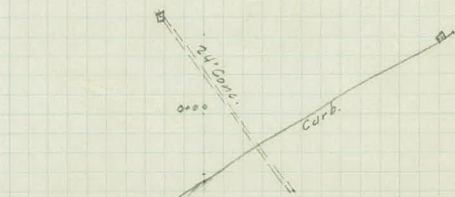
+50

1

+50

+50

0



-50
0-15.50 Edge B.T. N.E.
0-17.85 Curb N.S.E.

+29 8" Elm 23
+24 15" Oak 15
+24 Curb - 12.7
+22 Mail Box 32.2
+19 Curb 16.65 34.4
+19 S.W. 34.4 40.6

+60 End S.W. 34.3 40.3
+99.5 Curb 16.85 34.3
+96 Curb 12.8
+88 12" Elm 22.5

+72 W.S.O. - 34

+58-12" Twin 23.8
+52-14" Oak 33

+33 M.H. 30.1 (Sanitary)
Sewer Begins
+20 12" Oak 20.5

Curb 12.6
S.W. 34.1 40.1
+94 End Wall 41.9
+84 18" Oak 18
+83 15" Oak 30
+81 4" Elm 23

+69 8.5' Slope Int 12.6

+46 15" Oak 21

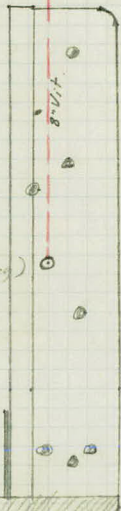
+39-1" Tree 27

+13-6" Elm 23
Wall 41.6
S.W. 39.8-39.9
Curb 12.35

+92 8" Oak 25.3
+77 6" Elm 22.2
+50 Curb 12.3
+50 Wall 41.4
+50 S.W. 33.5-39.7
+42-8" Elm 22.2
+30 8" Oak 15
+29 Curb 12.35
+25 C.B. 11.7

Grated Top
+17 6" Oak 23.6
+16 Curb 12.8
+14-14" Oak 16
+06-6" Oak 30
+06 Curb 17.8
+04 S.W. 39.8-30.7
+04 Cor Wall 40.9
+00 S.W. 38.4-49.0
+00 Curb 30.0
-50 Curb 30

FIRST ST.



+49 20" Elm 32

+36 Curb 13.1

+24 Curb 20.2
+20 Curb 31

+94 Curb 29.8

+88 Curb 18.1

+78 Curb 12.8

+53 Lamp Post 15.0

+09 15" Maple 26
Curb 12.8

Curb 12.55

+93 Lamp Post 15.3

+68 Curb 12.4

+58 Curb 18.8

+54 Curb 34.0

+21 Curb 63.5

+20 C.B. 61.2
Grated

+08 Spillway 39

+00 End 28 Conc 23

LAKE AVE

7

+50

6

+50

5

+50

4

+50

S.W. 35.0-41.0
Curb 13.4

+74 M.H. (Sanitary) 31.0

+63-10" Oak 23

+32 14" Oak 22

+08-12" Oak- 23
S.W. 34.9- 40.9
Curb 13.1

+72 W.S.P. 35.
+65 10" Elm 23.5

+30 10" Elm 23

+08-14" Oak 17.5
S.W. 34.7 - 40.7
Curb 13.0

+79 10" Oak 25.1

+59 10" Elm 22.7

+11 Curb 12.6

+95
+91 Curb 20.1
33.1

FIRST ST.

+
+32 Curb 34.6
+27.5 Curb 18.4
+19 Curb 13.1

Curb 13.1
+99 Light Pole 14

Curb 13.0

+61 Lamp Post 14.6



Cross Sections

Clark Ave

Lake to First.

Sta.	+	π	-	Elev.
B.M.	1.38	943.06.		944.68.
T.P.	5.47	943.09	5.44	937.62

0+00			6.2	36.9
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+12			6.3	36.8
-----	--	--	-----	------

+18			6.3	36.8
-----	--	--	-----	------

+50			6.5	36.6
-----	--	--	-----	------

+67			6.5	36.5
-----	--	--	-----	------

1			6.4	36.7
---	--	--	-----	------

+50			6.4	36.7
-----	--	--	-----	------

2			6.3	36.8
---	--	--	-----	------

+50			6.4	36.7
-----	--	--	-----	------

+80			6.4	36.7
-----	--	--	-----	------

+93				36.7
-----	--	--	--	------

Top Hyd S.E. Cor 2nd and Clarke

31.14

F.L. 24" Conc 11.95

23-RH 0-20

Spillway

S.W. 23 Rt. 0-20 Spillway
 (5.19 5.38 6.18 6.60 6.55 6.4 6.53 6.32 5.83 5.99 6.55 6.64)
 (50 39 28 28 25 6.2 26 28 30 30 41 40 44)

(5)

EWall

 Σ, ω

36.51

[illegible]

43 42 41 41 (39 33) 20 13 13 11 6.3 20 43 45 47 47 50

36.43

$$\begin{array}{ccccccc} \frac{53}{43} & \frac{287}{42-41} & \frac{5.2}{41} & \left(\frac{5.39}{39} \right) & \left(\frac{5.52}{33} \right) & \frac{5.4}{25} & \frac{6.1/3}{12} \\ & & & & & & \frac{6.6}{12} \\ & & & & & & \frac{6.6}{10} \\ & & & & & & 6.3 \\ & & & & & & \frac{6.1}{30} \\ & & & & & & \frac{6.2}{50} \end{array}$$

43 42-41 41 (39 33) 25 12 12 10 6.3 $\frac{6.1}{30}$ $\frac{6.1}{50}$

Inv. 24" Conc / 0.32

31.77

Catch Basin 125.

5.5 2.44 5.3 (5.45 5.66) 5.9 6.8 7.45 7.0 5.6 4.82 5.6 5.7
44 43-42 42 (40 34) 15 12 12 10 6 5 32 33 34 50

44 43-42 42 (40 34) 15 12 12 10 6.5 32 33 34 50

25.6

$$\begin{array}{cccccccccccccccc} 5.6 & (2.58) & 5.5 & (5.58) & 5.80 & 6.0 & 6.32 & 7.49 & 6.9 & 6.0 & 5.01 & 4.9 \\ 43 & (42.41) & 41 & (40) & 34 & 15 & 12 & 12 & 10 & 6.5 & 12 & 12 & 5 \end{array}$$

43 (42-41) 41 (40-34) 15 12 12 10 6.5 12 12 50

25.4

$\frac{6.0}{43}$	$\frac{2.9}{42-41}$	$\frac{5.7}{41}$	$\frac{5.78}{40}$	$\frac{5.93}{34}$	$\frac{6.43}{12}$	$\frac{7.63}{12}$	$\frac{7.0}{11}$	$\frac{5.9}{64}$	$\frac{5.14}{13}$	$\frac{5.2}{50}$
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43 (42-41) 41 40 34 / 12 12 11 64 13 13 50

3553

$$\frac{6.1}{43} \quad \frac{3.01}{42.41} \quad \frac{5.9}{41} \quad \left(\frac{6.00}{40} \quad \frac{6.09}{34} \right) \quad \frac{6.53}{12} \quad \frac{7.56}{12} \quad \frac{6.9}{10} \quad 6.4 \quad \frac{5.9}{13} \quad \frac{5.23}{13} \quad \frac{5.2}{50}$$

43 (42-41) 41 40 34 12 12 10 6.4 73 73 50

35.6'

$\frac{6.3}{50} \left(\frac{6.20}{40} \frac{6.24}{34} \right) \frac{6.52}{12} \frac{7.45}{12} \frac{6.9}{11} \frac{5.9}{6.3} \frac{5.38}{13} \frac{5.1}{32} \frac{5.3}{50}$

50 (40 34) 12 12 11 6.3 13 13 32 50

M.H + 33 Inv. 8" Vit. $\frac{12.50}{30.1}$

$$\begin{array}{r} 2.50 \\ \times 10.1 \\ \hline \end{array}$$

35.60

$\frac{6.7}{50} \quad \left(\frac{6.37}{40} \quad \frac{6.37}{34} \right) \quad \frac{6.60}{12} \quad \frac{7.40}{12} \quad \frac{6.9}{10} \quad \frac{6.0}{13} \quad \frac{5.45}{13} \quad \frac{5.2}{50}$

50 (40 34) 12 12 10 6.4 13 13 50

3576

$$\begin{array}{r} 6.5 \\ \underline{50} \end{array} \quad \begin{array}{r} 6.42 \\ \underline{40} \end{array} \quad \begin{array}{r} 6.46 \\ \underline{34} \end{array} \quad \begin{array}{r} 6.64 \\ \underline{12} \end{array} \quad \begin{array}{r} 7.23 \\ \underline{12} \end{array} \quad \begin{array}{r} 7.0 \\ \underline{11} \end{array} \quad \begin{array}{r} 6.0 \\ \underline{13} \end{array} \quad \begin{array}{r} 5.66 \\ \underline{13} \end{array} \quad \begin{array}{r} 5.0 \\ \underline{50} \end{array}$$

56 (40 34) 12 12 11 64 13 13 50

35.76

$\frac{6.5}{50} \quad \left(\frac{6.40}{40} \quad \frac{6.45}{34} \right) \frac{6.44}{12} \quad \frac{7.33}{12} \quad \frac{7.0}{11} \quad 6.4 \quad \frac{5.8}{15} \quad \frac{5.5}{32} \quad \frac{5.15}{33} \quad \frac{5.5}{34} \quad \frac{5.5}{50}$

50 (40 34) 12 12 11 6.4 15 32 33 34 50

Sta.	+	π	-	Elev.
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943.09

3			6.4	367
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+20			6.3	368
-----	--	--	-----	-----

+36			6.3	368
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+60			6.2	369
-----	--	--	-----	-----

4			6.1	37.0
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T.P.	6.20	943.17	6.12	936.97
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+50			6.1	37.1
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5			6.0	37.2
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+20			6.0	37.2
-----	--	--	-----	------

+33			5.8	37.4
-----	--	--	-----	------

+61.33			5.7	37.5
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B.M.			1.47	941.70 (941.68)
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S.W. curb 35.79

$$\left(\frac{6.56}{40} \frac{6.60}{34} \right) \frac{7.3}{34} \left(\frac{6.51}{34} \frac{6.65}{16} \right) \frac{7.3}{16} \frac{7.3}{13} \frac{7.0}{11} 6.4 \frac{5.7}{16} \frac{5.5}{31} \frac{5.5}{50}$$

S.W. curb

$$\frac{6.8}{50} \left(\frac{6.60}{40} \frac{6.64}{34} \right) \frac{6.8}{34} \left(\frac{6.23}{34} \frac{6.23}{17} \right) \frac{6.9}{17} \frac{7.0}{12} 6.3 \frac{5.7}{13} \frac{5.5}{32} \frac{4.90}{33} \frac{5.5}{34} \frac{5.5}{50}$$

S.W. curb

$$\frac{6.4}{50} \left(\frac{6.55}{40} \frac{6.60}{34} \right) \frac{6.4}{22} \frac{6.31}{13} \frac{7.10}{13} \frac{6.8}{11} 6.3 \frac{5.8}{13} \frac{4.92}{13} \frac{5.1}{29} \frac{5.1}{50}$$

S.W. curb

$$\frac{6.3}{50} \left(\frac{6.50}{40} \frac{6.53}{34} \right) \frac{6.5}{25} \frac{6.28}{13} \frac{7.02}{13} \frac{6.8}{11} 6.2 \frac{5.8}{13} \frac{4.98}{13} \frac{5.4}{31} \frac{5.3}{50}$$

S.W. curb

$$\frac{6.3}{50} \left(\frac{6.38}{40} \frac{6.41}{34} \right) \frac{6.2}{25} \frac{6.12}{13} \frac{6.9}{13} \frac{6.6}{11} 6.1 \frac{5.8}{13} \frac{5.02}{13} \frac{5.1}{32} \frac{5.2}{50}$$

S.W. curb

$$\frac{5.9}{50} \left(\frac{6.21}{40} \frac{6.23}{34} \right) \frac{6.2}{26} \frac{6.05}{13} \frac{6.8}{13} 6.1 \frac{5.8}{13} \frac{5.03}{13} \frac{5.0}{30} \frac{5.4}{50}$$

S.W. curb

$$\frac{5.9}{50} \left(\frac{5.96}{40} \frac{6.02}{34} \right) \frac{6.1}{24} \frac{5.92}{13} \frac{6.7}{13} 6.0 \frac{5.7}{13} \frac{5.00}{13} \frac{4.9}{34} \frac{5.2}{50}$$

S.W. curb

$$\frac{5.6}{50} \left(\frac{5.87}{40} \frac{5.92}{34} \right) \frac{5.9}{25} \frac{5.79}{13} \frac{6.58}{13} \frac{6.4}{11} 6.0 \frac{5.6}{13} \frac{4.98}{13} \frac{5.0}{32} \frac{5.2}{50}$$

S.W. curb

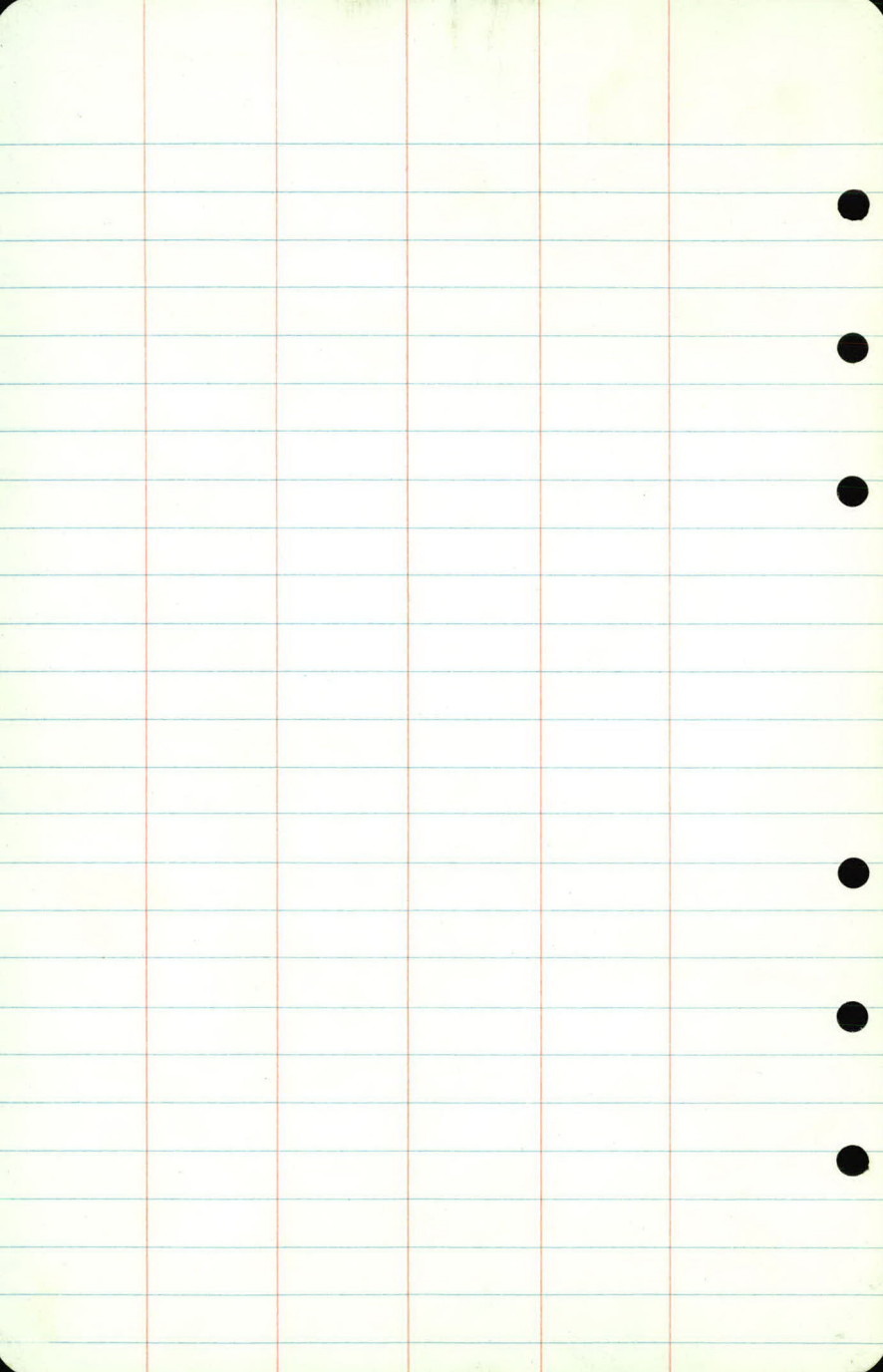
$$\frac{5.5}{50} \left(\frac{5.79}{40} \frac{5.89}{34} \right) \frac{5.7}{25} \frac{5.73}{13} \frac{6.51}{13} \frac{6.3}{11} 5.8 \frac{5.4}{15} \frac{5.4}{32} \frac{5.04}{33} \frac{5.4}{34} \frac{5.5}{50}$$

S.W. curb

$$\frac{5.3}{50} \left(\frac{5.66}{40} \frac{5.76}{34} \right) \frac{5.7}{26} \frac{5.62}{13} \frac{6.40}{13} \frac{6.2}{11} 5.7 \frac{5.5}{13} \frac{5.0}{31} \frac{5.3}{50}$$

Inv. 8" Vit 13.94
MH + 74 31 29.23

Top Hyd. S.E. Cor. 2nd and Clark



Clark Ave.

Storm Sewer

Staking Notes

Lake Ave to First Ave.

Sta	+	π	-	Grade
B.M.	2.74	943.03		940.29

0	+34.7			32.77
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	+50			32.8
--	-----	--	--	------

	+75			32.85
--	-----	--	--	-------

1				32.90
---	--	--	--	-------

	+25			32.95
--	-----	--	--	-------

	+50			33.0
--	-----	--	--	------

	+75			33.05
--	-----	--	--	-------

2				33.10
---	--	--	--	-------

	+25			33.15
--	-----	--	--	-------

	+50			33.20
--	-----	--	--	-------

	+75			33.25
--	-----	--	--	-------

	+93			33.29
--	-----	--	--	-------

B.M.	2.74			940.29
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5' offset.

9-10-40
K.H.
L.C.
M.B.Present
GutterCut
from
Grade Rod Blue TopTop
Block Top
Top Curb

Elevations

Top Hyd. N.E. Cor. Lake Ave. + Clark Ave.

10.26	$\frac{5.46}{+4.80}$	36.86 6.17	36.28 6.75	35.67
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10.23	$\frac{5.73}{+4.50}$	36.83 6.20	36.20 6.83	35.64
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10.18	$\frac{5.78}{+4.40}$	36.75 6.28	36.20 6.83	35.59
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10.13	$\frac{6.03}{+4.1}$	36.70 6.33	36.23 6.80	35.50
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10.08	$\frac{6.28}{+3.80}$	36.65 6.38	36.21 6.82	35.53
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10.03	$\frac{6.13}{+3.90}$	36.58 6.45	36.29 6.74	35.56
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9.98	$\frac{5.98}{+4.0}$	36.61 6.42	36.39 6.64	35.57
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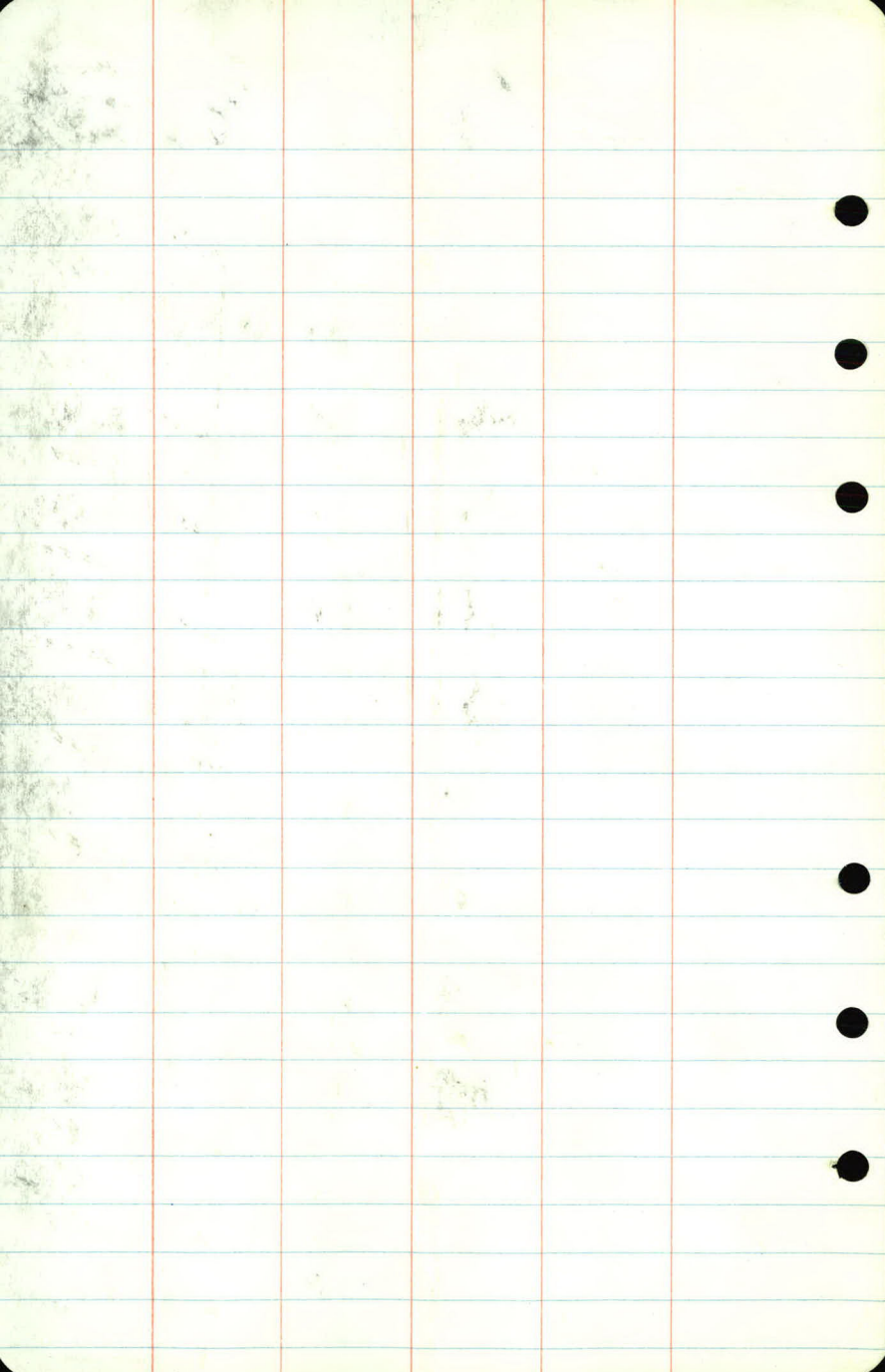
9.93	$\frac{6.33}{+3.6}$	36.57 6.46	36.25 6.75	35.60
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9.88	$\frac{6.38}{+3.50}$	36.55 6.48	36.21 6.75	35.65
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9.83	$\frac{6.33}{+3.50}$	36.52 6.51	36.23 6.81	35.69
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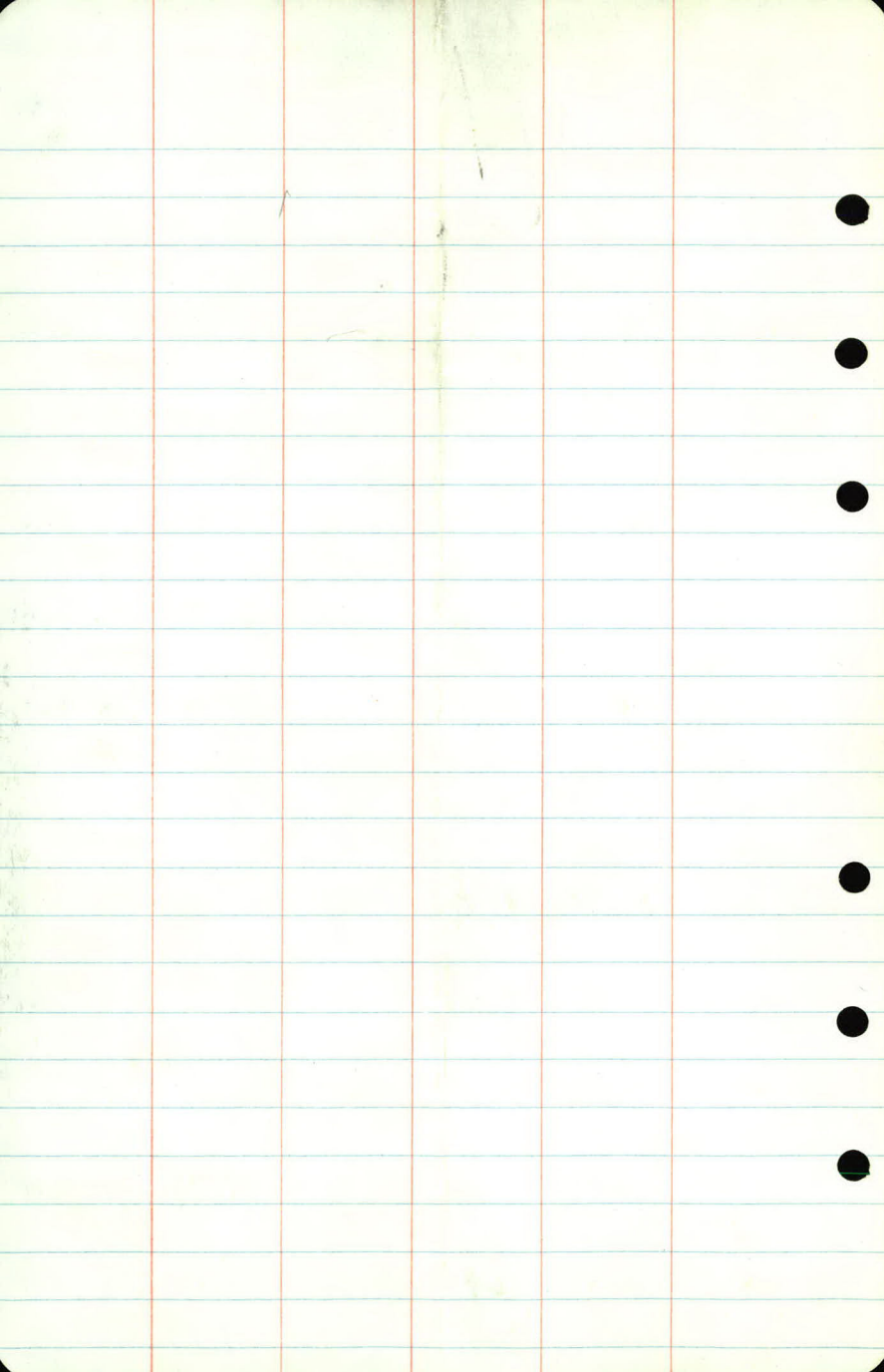
9.78	$\frac{6.48}{+3.30}$	36.49 6.54	36.14 6.89	35.79
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9.74	$\frac{6.34}{+3.40}$	36.48 6.55	36.10 6.93	35.80
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Clark Ave (W.D)

Sta.	Top Curb	Prop. Gutter Grade	Curb Exp.	Present Gutter Grade	Fill Gutter	Edge Blade
0+34.7	36.86	35.86	1.00	35.67	.19	36.28
1						
+50	36.83	35.87	.96	35.64	.23	36.20
1						
+75	36.75	35.90	.85	35.54	.36	36.20
1						
	36.70	35.92	.78	35.50	.42	36.23
+25	36.65	35.95	.70	35.53	.42	36.21
+50	36.58	35.97	.61	35.54	.41	36.29
+75	36.61	36.00	.61	35.57	.43	36.39
2						
	36.57	36.02	.55	35.60	.42	36.28
+25	36.55	36.05	.50	35.65	.40	36.21
+50	36.52	36.07	.45	35.69	.38	36.23
+75	36.49	36.10	.39	35.79	.31	36.14
+93	36.48	36.12	.36	35.80	.32	36.10



Gutter Grades

Clark Ave.

Sta	+	π	-	Grade
B.M.	2.51	942.80		940.29

0	+40			35.86
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	+60			35.88
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	+80			35.90
--	-----	--	--	-------

1				35.92
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	+20			35.94
--	-----	--	--	-------

	+40			35.96
--	-----	--	--	-------

	+50			35.97
--	-----	--	--	-------

	+60			35.98
--	-----	--	--	-------

	+80			36.00
--	-----	--	--	-------

2				36.02
---	--	--	--	-------

	+20			36.04
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Gr. Rod.

Top Hyd N.E. Cor. Lake & Clark Ave

6.94 ✓

6.92 ✓

6.90 ✓

6.88 ✓

6.86 ✓

6.84 ✓

6.83 ✓

6.82 ✓

6.80 ✓

6.78 ✓

6.76 ✓

942.80

2 +40

36.06

+60

36.08

+80

36.10

+90

36.11

6.74 ✓

6.72 ✓

6.70 ✓

6.71

