

BK. 55 Dr. 14

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Plan _____ Survey _____ Proj[#] 48-W.B.1
First St. S.T.H. #61 to Clark Ave, storm Sewer
Burson Ave, _____

From 1st St. To 2nd St. Plan Survey
Also Ditch Grades.

Road Acc't. No. _____

Date Filed 8-17-48

File _____

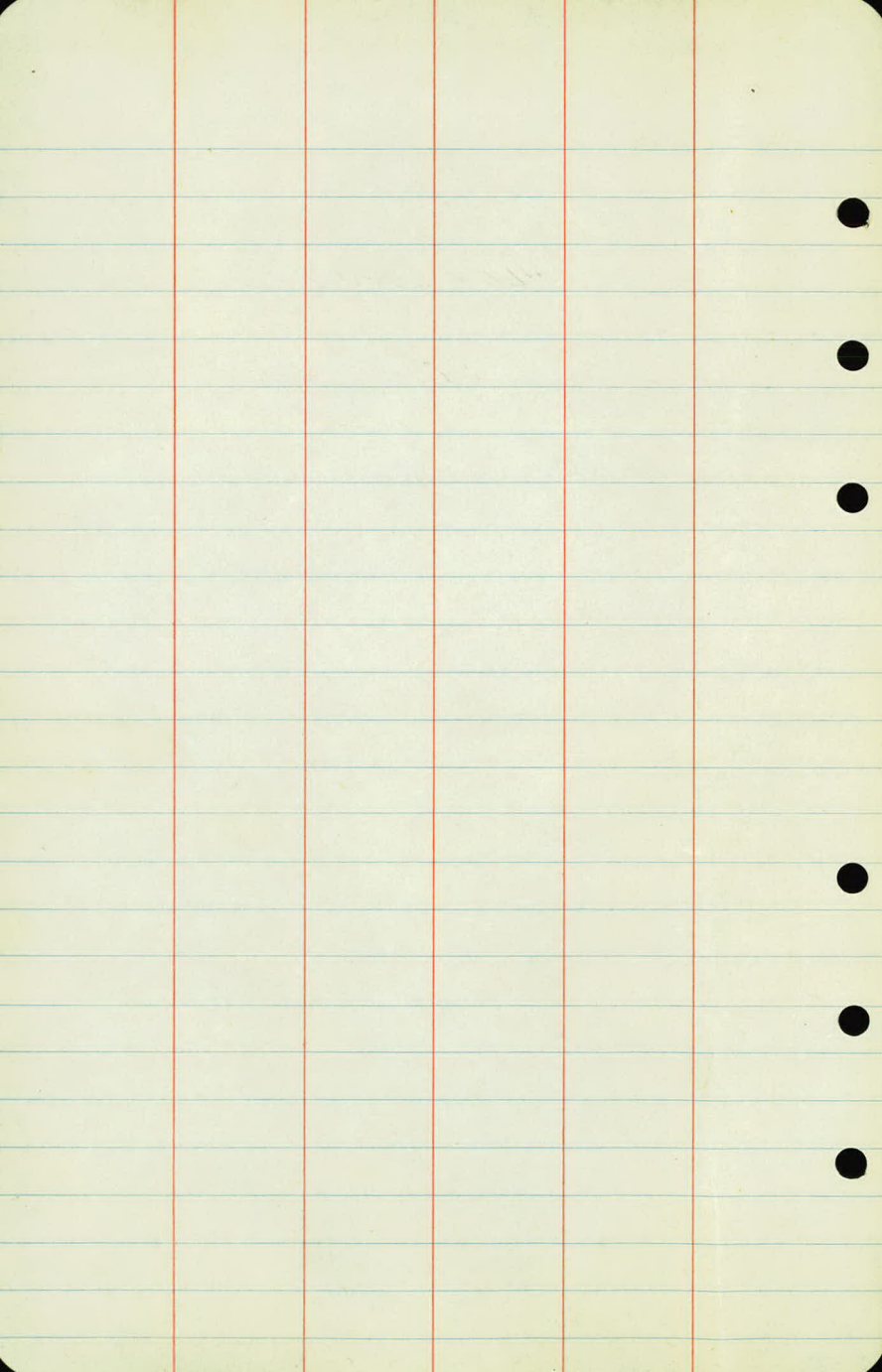
PLAN SURVEY

FIRST STREET

S.T.H. 61 to Clark Ave.

White Bear.

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1

Alignment

1st

7 +00 P.O.T.

4 +40.38 P.I.

0 +00 = E.S.T.H. 61

K.T.
A.M.
M.B.
P.C.
E.B.

6-14-48

2

W. Prop Line Clark

Iron =
7+04.9
SW 1/4
1.6'

Cor
Footings

See 1st St. for Ties

E Burson I

4+40.38

90°

4+40.38

15'

Iron

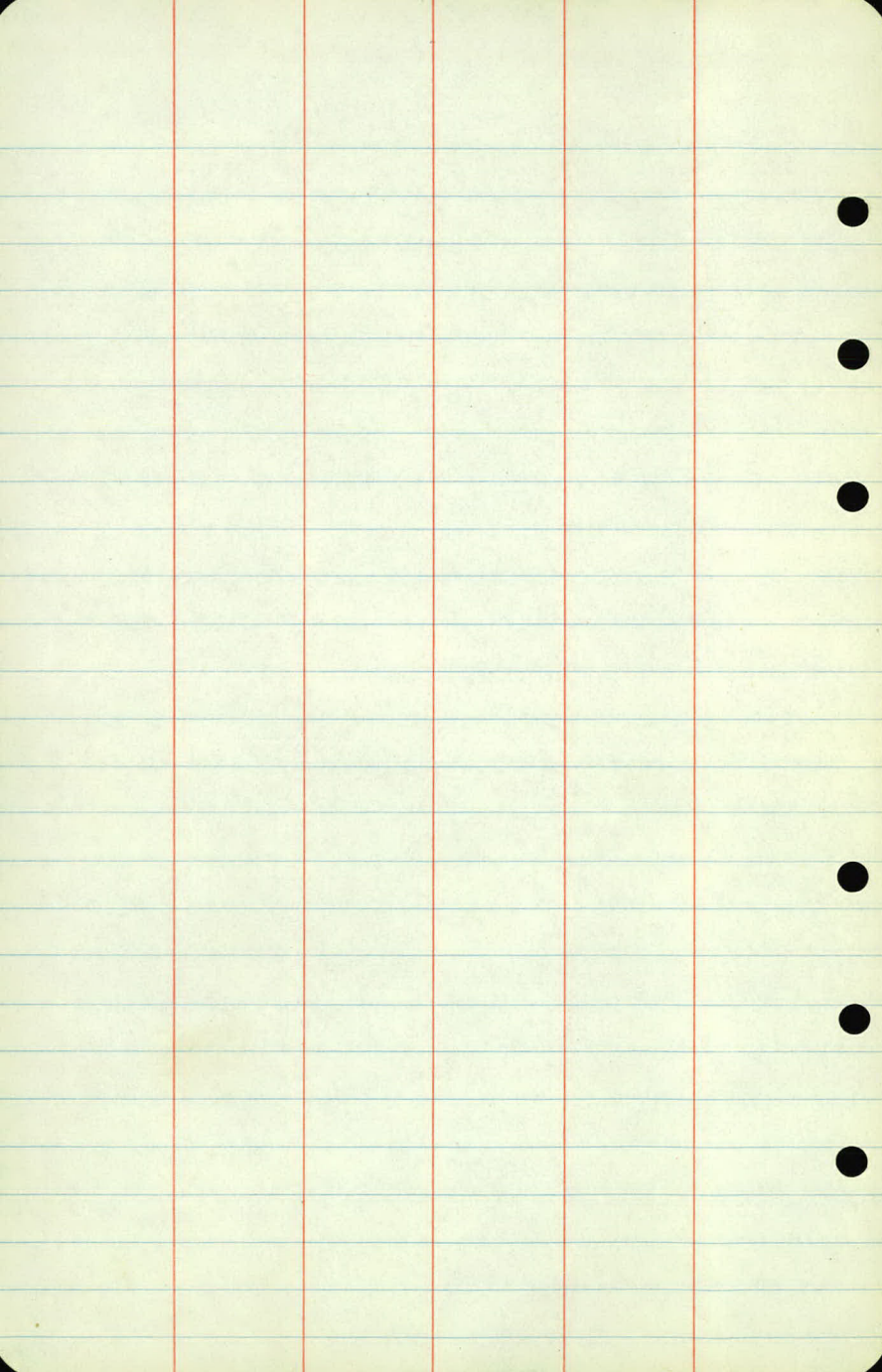
Iron
0+94.25

12" Elm
57.19'

3703' RP

0+74.76

DOWN 1.5'



Topography

+81 B"Tw Elm-27'
+68 E Ent.
+63 End Hedge-30-26'

+92-Ent-
+82-Beg Lillacs-28'

+39-E 3'S.W.-24.5'

+17 PP-18'
+108-Ent-9'
+102-8'E/m-33'

13' 10'

+82-Ent-29'

+73-PP-17'

+58-Beg. Hedge-30-24'

+60-Hedge-29'

+48-End Hedge-27-24'

+46-Beg Ent-10'

12'

10' +102-18'E/m-31'

+97-Edge of Hedge-32-27.5'
+97-Hyd-18.5'

+85-20° B.E.-28' 31'

+70-End 15" C.M.-Culv-24'

15" X 57" X Drain

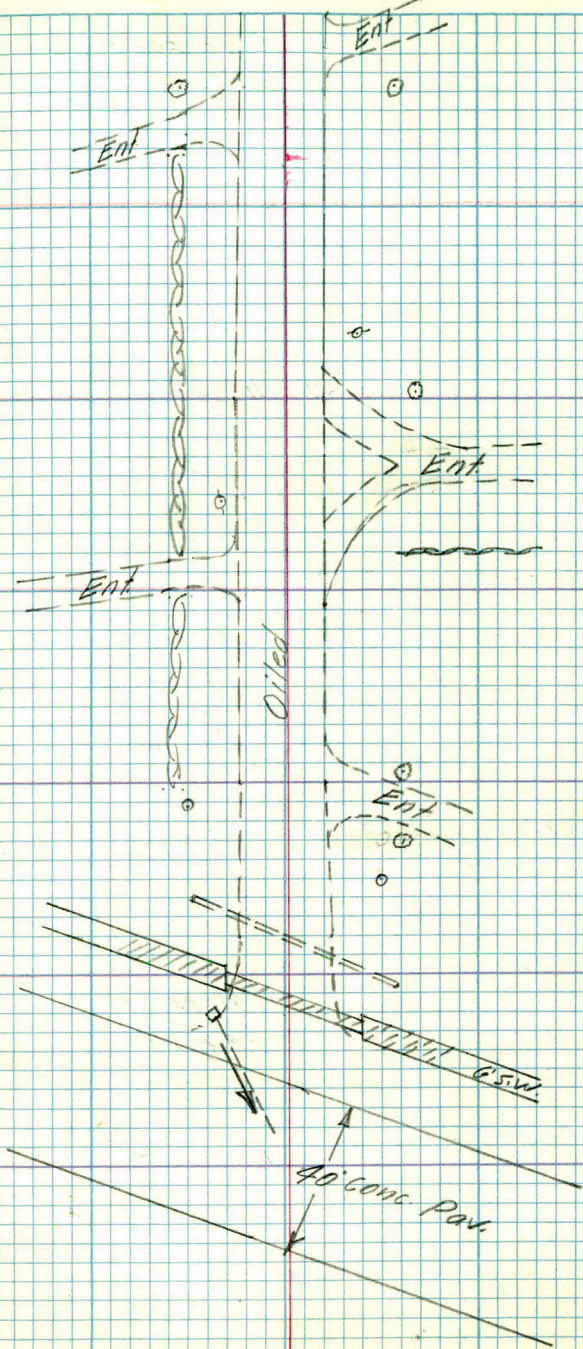
+60-Rd-12'-12'

6'S.W.
+52-Cor S.W.-15.9'

+39-C.B.-18.5'

+97-End 15" C.M.-29'
+39-S.W.-20.5'
+31-PP-22'

0



+46-Ent

+40-Beg. Rubble Wall-14'

6

+92-Ent-

9'

+28 Cor. Ho-28'
+29 PP-85
+70 Cor. Slab-17'
+107 Cor. Conc. Slab-18'
+104 Fence-15'

+95-Ent-
+89-2 3'SW-16'

+68-36" Elm-16'

+69-6" Elm-20'

+50' 7 11'

+17-2 3'SW-15'
+43 M.H.-7'
+38-6" Elm-18'

+90-End Brick Wall-8'

+27-2 3'SW-16'

5 Wall-8'

5' 12'

+90-6" Elm-18'

+80-2 3'SW-9'

+65-Beg. Brick Wall-14'
+65-Shrub-20" Ed-10'

+68-2 3'SW-15'
+60-18" Elm-18'

+51-Ed-29'

+40-38" from West = M.H. 00

+11-PP-9'
+40-Ent-15' +46-18" Elm-18'
15 = +35

+18-18-22'

4

5' 15'

+92-Fc-25'

+78-24" Elm-30'

+84-Ent-

+61-24" Elm-30'

+32-Ent- 12' x 14' G.M.
13'

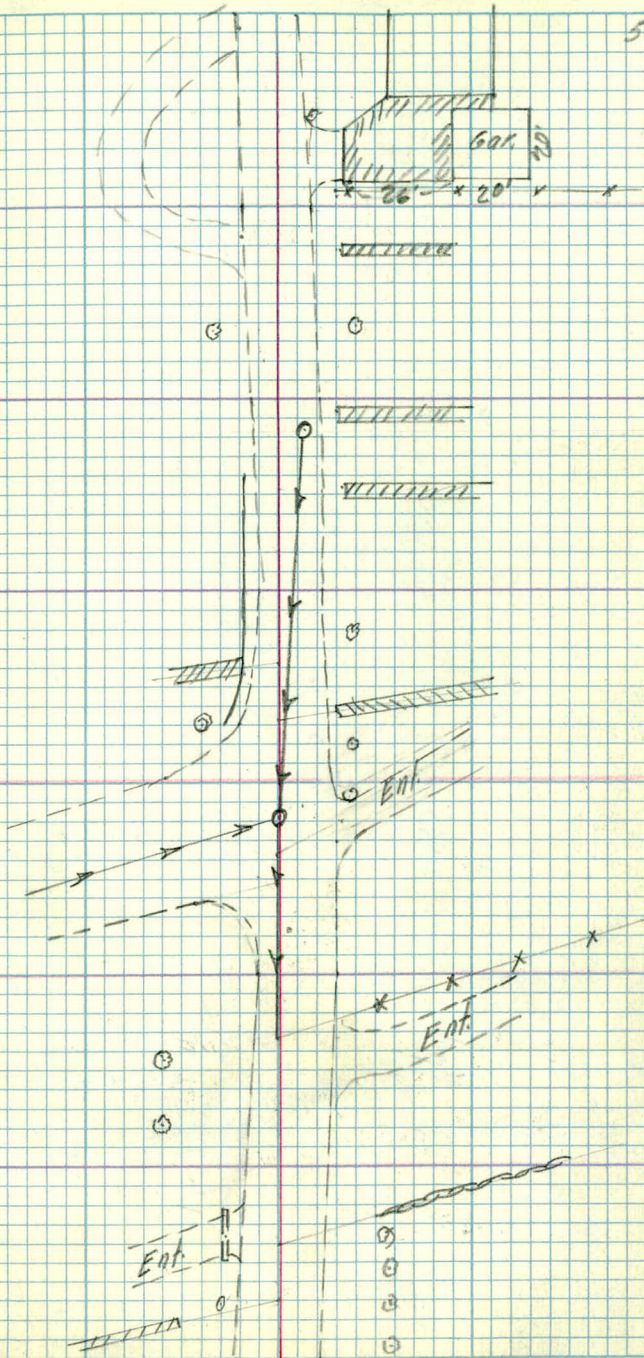
+40-PP-19'
+37-Headg-25'

+15-Ramp to 105W
+14-Gate Valve-15'
+108-2 3 1/2 SW-20'

3

11' 11'

+101-Gate Valve-20'

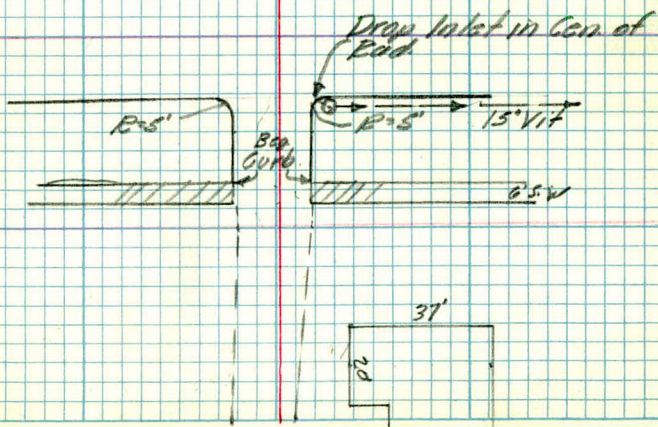


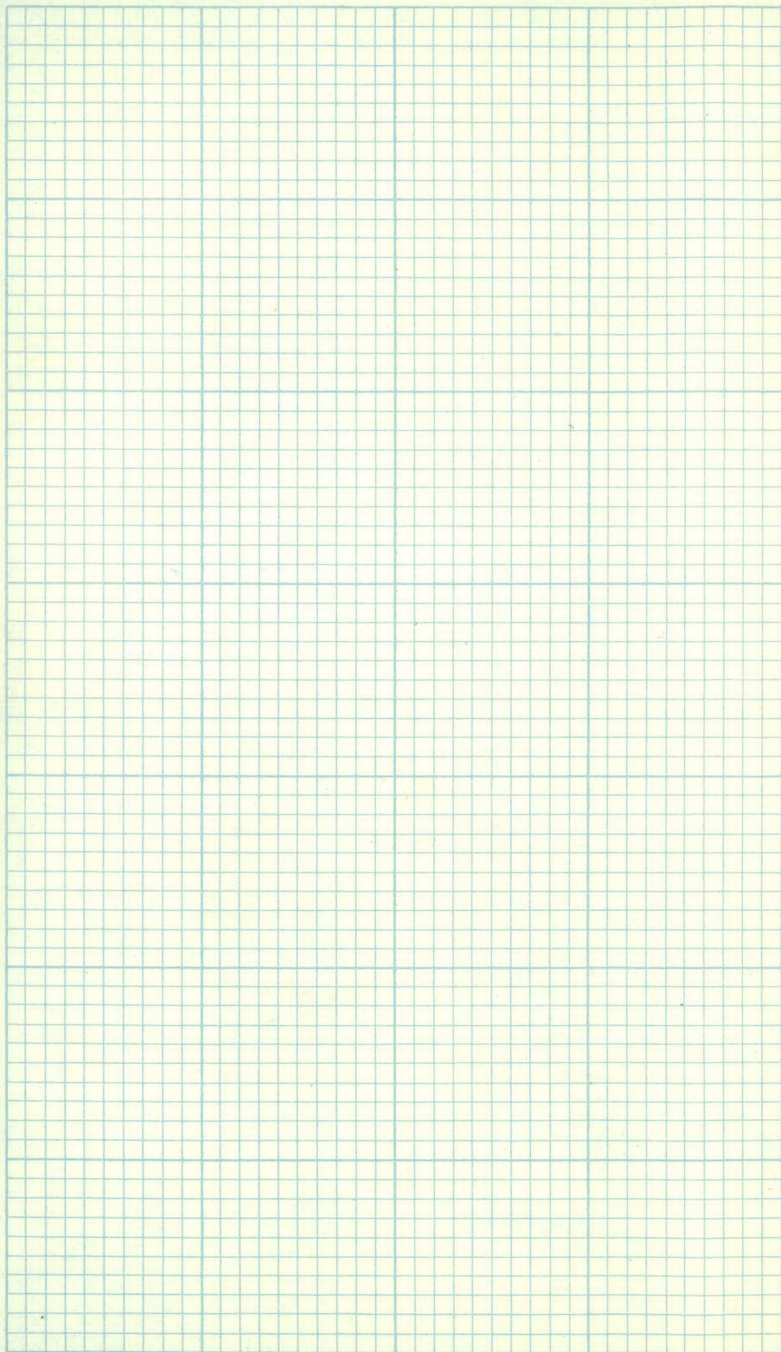
+34.25 = Face of Curb

+25 Curb-11 - 93' +31-M.H.-146'

+06.5 Cor. S.W. - 112' 10' 8' +06.5 Cor. S.W. - 93' +05 End Wall - 14'

+50 Rd = 12'-5" +54 Cor Ho - 18'-23'





X SECTIONS
FIRST ST
STH #61 TO CLARK-AVE

Sta. + π - Elev

B.M. 0.00 942.38 (942.38)

0+00 & PAVEMENT 38.90

+20 E EDGE PAVEMENT 38.43

+39 38.5

+52 38.7

+73 38.2

1 37.5

+50 37.2

2 37.4

+32 S. W. 37.7

Top HYDT. N.E. COR BURSON AV + 1ST ST

3.48

38.72 38.23 3.95
M.H.
3.66 4.15 3.9 4.0 3.46 3.8 5.3 5.6 ✓
50 18.9 20.0 20.2 29 46 50

39.16
3.1 3.2 3.22 3.7 3.7 4.0 3.9 5.4 5.6 5.2 5.4 ✓
50 32 15.6 15.5 11 13 23 30 33 50

3.9 5.1 5.6 4.2 4.1 4.4 4.2 4.7 4.8 5.5 5.0 5.6 6.3 6.8 ✓
50 27 25 22 14 13 10 11 15 21 30 36 50

4.2 4.9 4.7 5.5 5.3 4.9 5.2 5.5 5.9 6.1 ✓
50 26 18 15 11 10 21 37 50

4.2 4.8 5.1 5.5 5.2 5.4 5.0 5.1 5.3 5.4 ✓
50 25 16 14 19 13 17 32 50
10 med.

4.7 4.7 4.7 5.2 5.0 5.2 5.1 5.3 5.2 5.6 ✓
50 24 18 15 10 13 20 24 50

W 38.14
4.2 4 4.7
24

Sta.	+	π	-	Elev
		942.38		

2 + 50				37.8
--------	--	--	--	------

3 + 72				38.1
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+76				38.2
-----	--	--	--	------

T.P.	5.52	944.03	3.87	938.51
------	------	--------	------	--------

3				38.4
---	--	--	--	------

+01				
-----	--	--	--	--

+08	S.W			38.5
-----	-----	--	--	------

+35				38.7
-----	--	--	--	------

+42				38.7
-----	--	--	--	------

+68				38.7
-----	--	--	--	------

L - 4 - R

4.1 4.1 4.3 5.0 4.7 4.6 4.8 3.8 3.7 ✓
 50 24 19 15 9 11 24 50

3.8 3.9 4.4 4.8 4.3 4.5 4.0 3.1 2.7 ✓
 50 37 17 13 12 14 26 50

3.1 3.1 3.5 4.7 4.2 4.5 4.0 3.9 2.5 2.2 ✓
 50 31-24 19 13 11 13 16 21 50

3.8 4.1 4.4 6.2 5.8 5.6 5.6 5.7 5.2 3.9 3.7 ✓
 50 30 18 13 8 7 13 16 24 50

W 39.99
 4.04
 25

5.5

WATER 5.0
 20

4.8 5.0 4.6 4.5 6.3 5.4 5.3 5.6 5.0 4.1 4.0 3.8 ✓
 50 43 34 17 12-13 10-6 14 16 22 36 50

4.7 4.6 4.6 6.2 5.4 5.3 5.5 5.0 4.8 4.8 4.0 ✓
 50 33 17 13-12 10 14 15 24 38 50

5.2 5.2 4.6 6.1 5.5 5.3 5.4 5.0 5.1 5.0 ✓
 50 26 16 13-12 9 16 18 26 50

Sta.	+	π	-	Elev.
		944.03		

4				38.7
---	--	--	--	------

	+09			38.8
--	-----	--	--	------

	+21			38.9
--	-----	--	--	------

	+37			39.0
--	-----	--	--	------

	+40.38	M. H.		
--	--------	-------	--	--

	+51			38.7
--	-----	--	--	------

	+68			38.5
--	-----	--	--	------

5				37.8
---	--	--	--	------

	+27	S. W		37.5
--	-----	------	--	------

5	+43	M. H		
---	-----	------	--	--

6.75 5443 7 R
12.75
11.75

L - E R - E

✓

4.9 5.2 4.5 6.3 5.6 5.3 5.1 5.3 5.0 5.3 5.4
50 26 16 11-10 8 5 18 19 31 50

5.1 5.4 6.2 4.5 4.4 6.0 5.6 5.2 5.1 5.4 5.0 5.3 5.0
50 38 30 24 16 13 9 9 17 19 34 50

✓

4.8 5.1 5.1 5.3 5.0 5.3 5.5
50 22 9 17 19 31 50

✓

4.9 4.8 4.8 5.0 5.2 5.4 5.2 5.5 5.7
50 36 11 10 17 20 33 50

✓

E 6.0 E
F.L. 2.60 Top 39.05
14.43 4.98

4.5 5.2 5.2 5.3 5.6 5.0 5.6 6.4
50 25 11 9 11 123 50

✓

3.7 4.1 4.7 5.4 5.7 5.5 5.8 5.6 6.1 11.0
50 23 13 12 11 12 16 41

38.41
S.W.

3.7 4.2 4.1 4.9 6.0 6.3 6.2 6.0 6.2 5.8 6.4 7.0
50 35 16 8 7 5 5 14 16 38 50

✓

6.5

6.48 37.55
15.3

31.28 F.L. 12.75 7 Top 37.28
6.75 7

Sta.	+	π	-	Elev
		944.03		

5 + 47		S.W.		37.3
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T.P.	4.33	941.71	6.65	937.38
------	------	--------	------	--------

+50				37.3
-----	--	--	--	------

+89		S.W.		36.9
-----	--	------	--	------

6				36.9
---	--	--	--	------

+14		CONC DRIVE		36.8
-----	--	------------	--	------

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

7				36.4
---	--	--	--	------

+05		PROP. LINE		36.4
-----	--	------------	--	------

L & R

6.7

6.8 ✓ 37.21
14.6

2.5 3.0 3.2 4.1 4.7 4.4 4.4 4.7 4.5 5.1 5.0 ✓
50 29 16 10 8 5 13 15 37 50

4.8

W
5.01
16

4.1 4.5 4.8 5.1 4.9 4.8 5.1 4.8 5.3 5.5 5.6 ✓
50 30 18 11 7 10 12 19 43 50

4.9

4.97
17.7

4.8 5.0 5.2 5.3 5.1 5.1 5.4 5.0 4.9 4.8 H.O ✓
50 33 15 12 5 8 11 16 29

5.1 5.1 5.1 5.5 5.3 5.5 5.6 5.2 5.2 5.1 ✓
50 32 14 10 6 8 10 24 50

5.1 5.1 5.5 5.3 5.7 5.2 4.9 4.9 ✓
50 32 11 8 14 33 50

Sta.	+	π	-	Elev.
		941.71		

7+09

36.3

+31

36.07

T.P

5.17 94 3.17 3.71 93800

B.M.

0.78 94239

942.38

6-15-47

12

L

R

R

36.41
5.36
11.4

5.4

36.43
5.28
9.4

36.87

36.13

36.07

35.47

36.32

36.40

35.20

L.O

4.84
11

5.58
11

5.64

6.24
9

CURB
5.39
9

Top
M.H
5.31
14

F.L
8.51
14

Top HYDT. N.E COR. BURSON AV & 1ST ST.

Sta.

+

π

-

E/2v.

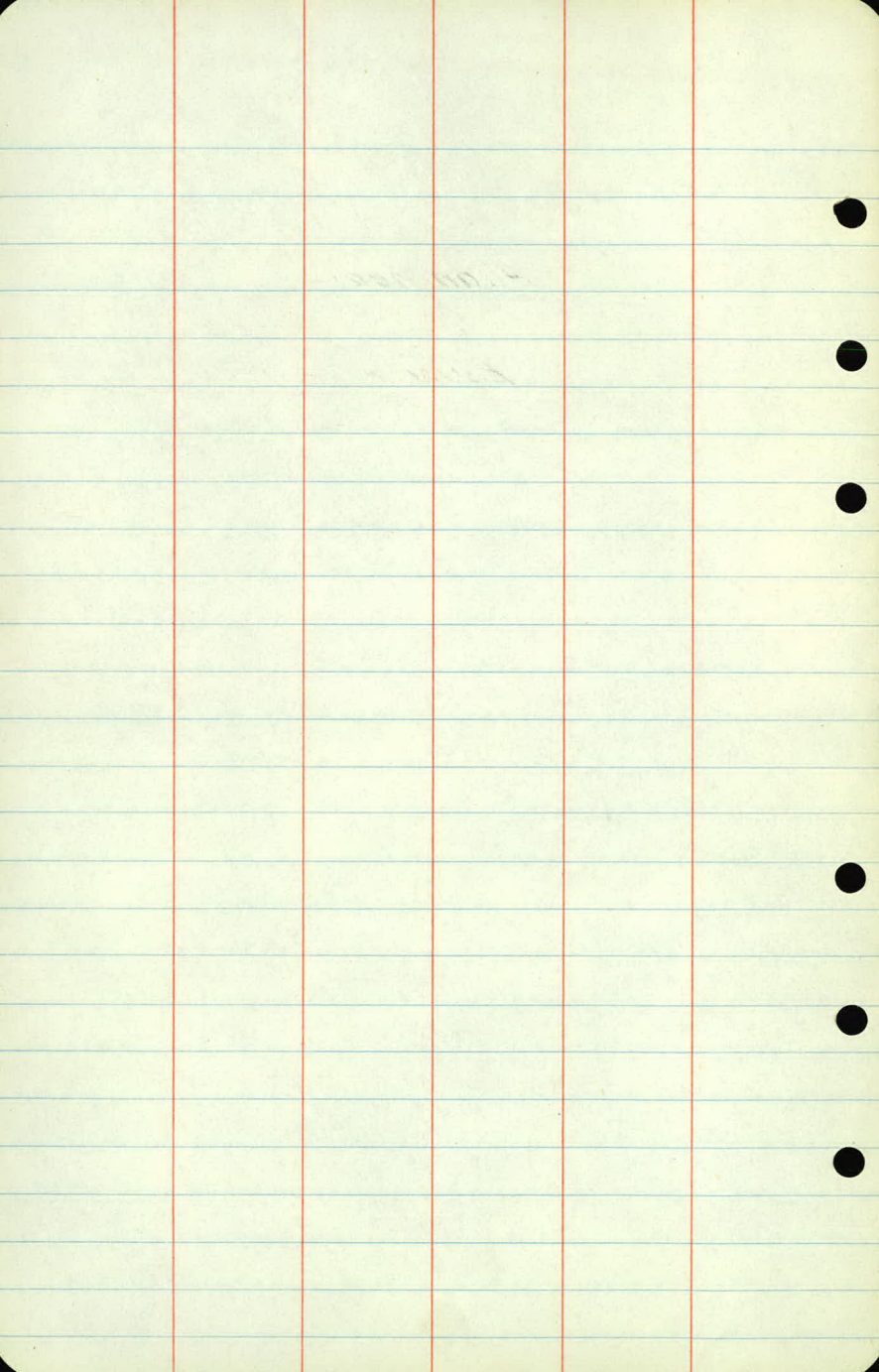
PLAN SURVEY

BURSON AVE

1st St. to 2nd St.

White Bear.

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1

Alignment

Burson

Sta.	Point	ΔLt	ΔRt
------	-------	-------------	-------------

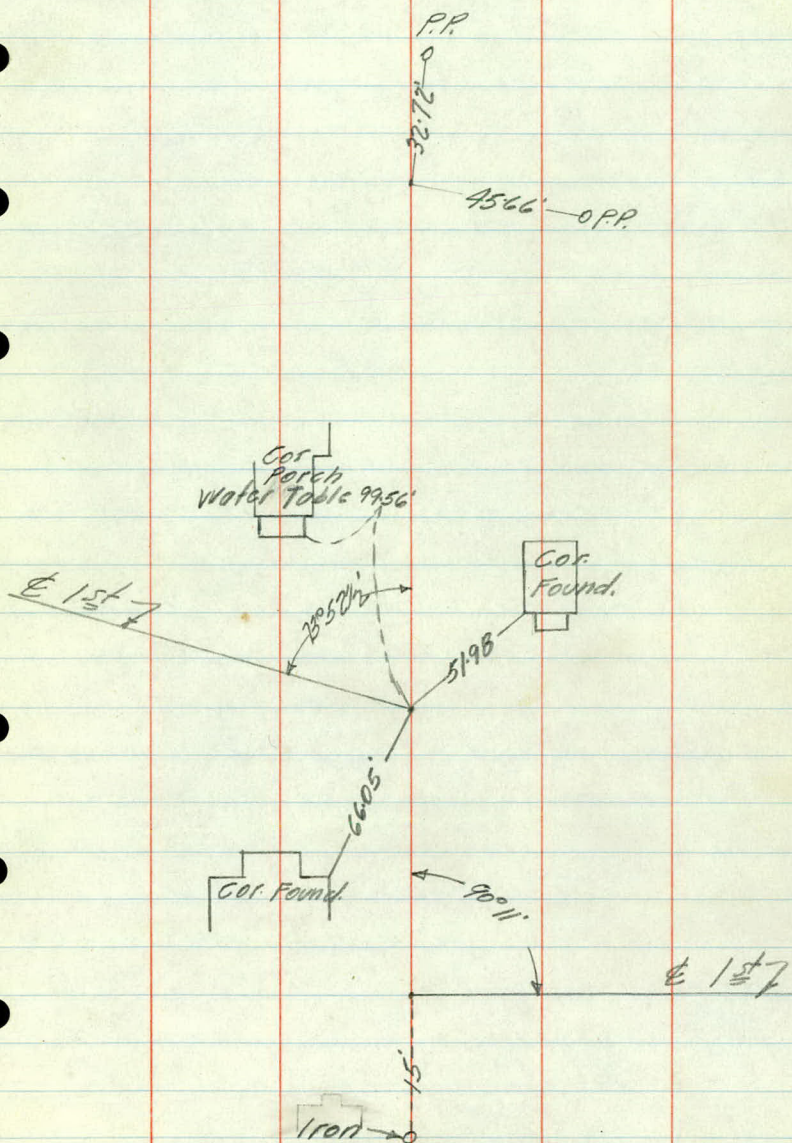
6	+10.87	P.O.T. =	@ 2 nd St.
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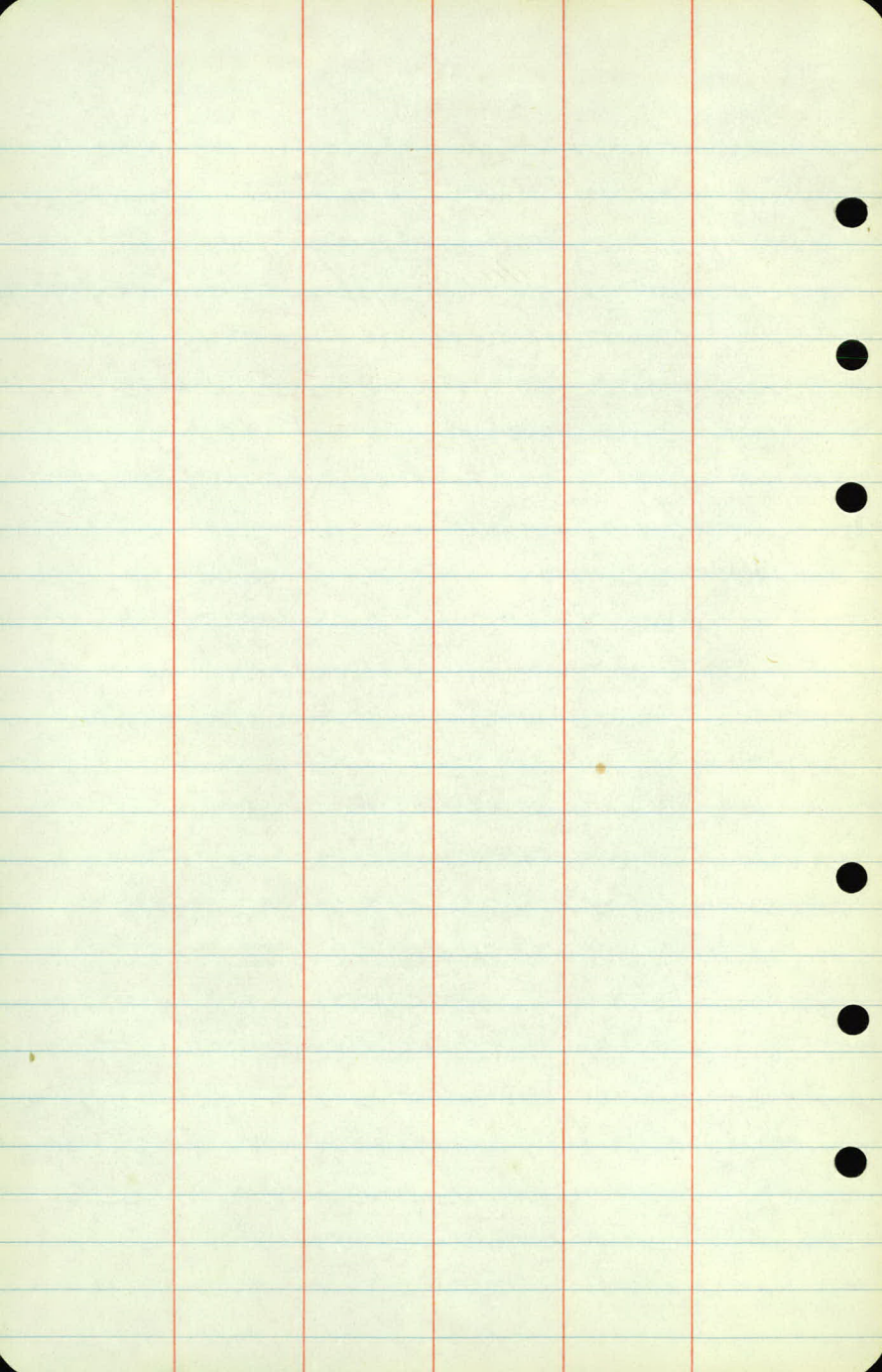
0	+11.02	P.O.T. =	@ 1 st St from West
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0	+100	@ 1 st St to East	
---	------	------------------------------	--

6-14-98

2





Topography

+98-Ent-
+80-PP-18'

+56-Fc Cor-30

+25-Ent

+24-Fc Cor-31'

2 +02-Hand Ditch-17'
Fc-26' 12' 11'

+88-SE Cor Cor-33'

+77-Ent-14'

+63-PP-19'

+44-E3'SW-30'

1 +16-Ent- $\frac{12' \times 14' \text{ C.M.}}{14'}$ 14' 10'

+94-Ent.-

+72-24'0"-27'

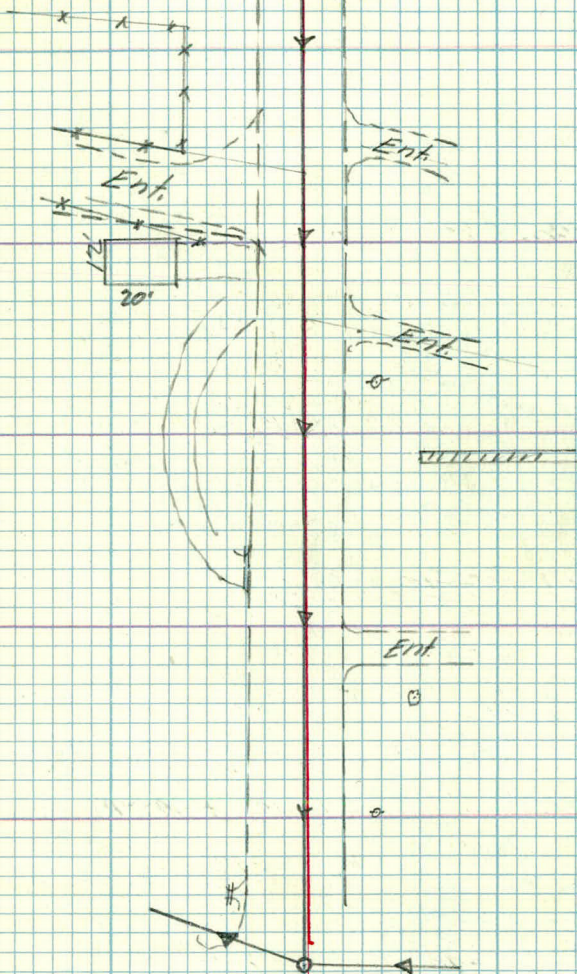
+51-PP-18'

+30- $\frac{12' \times 6' \text{ C.M.}-18'}{18'} = 15$

+37-Hyd-19'
11' = +27'

+1102-M.H-00

0



See 1st St. for Topog. of Int.

6

+93-Cor. SW-28.5'

+75-Drive-23'

+50-Drive-25' SW-60'

+30-Drive-33'

+82 Bdg. Curb-20'

12' = +75

+63-4" Cotta-19'

+42-PP-19'

+34-Curb-29'

5

Ent-53' 12' 12' +06 Bldg. Black Wall-30'

+65 Air Hose Stand-36'

+58 M.H.-00

1.55 Ent.

+16-Cor. Bldg-33'

+17-3"E/m-25'

4 Cor. Bldg-45

14' 10' +04-PP-19'

+92-3"E/m-24'

+66-12" BE-43'

+69-3"E/m-24'

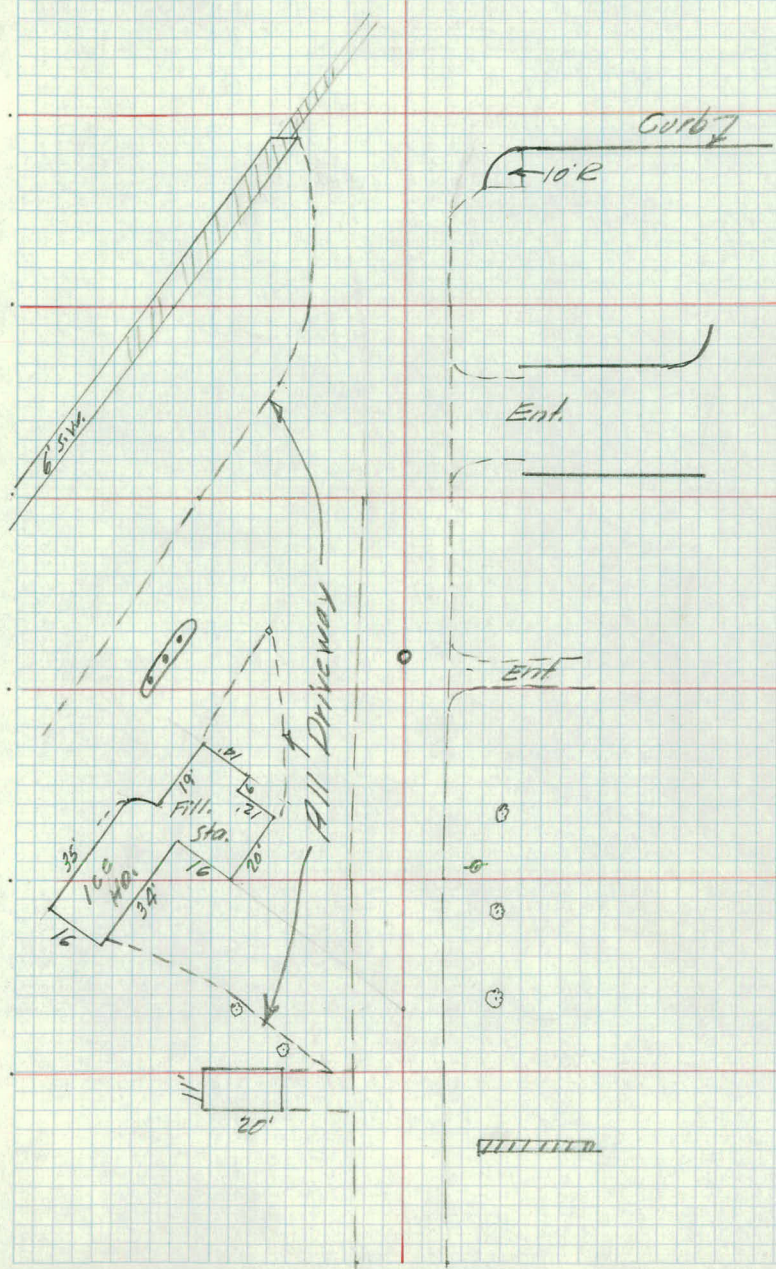
+56-18"E/m-31'

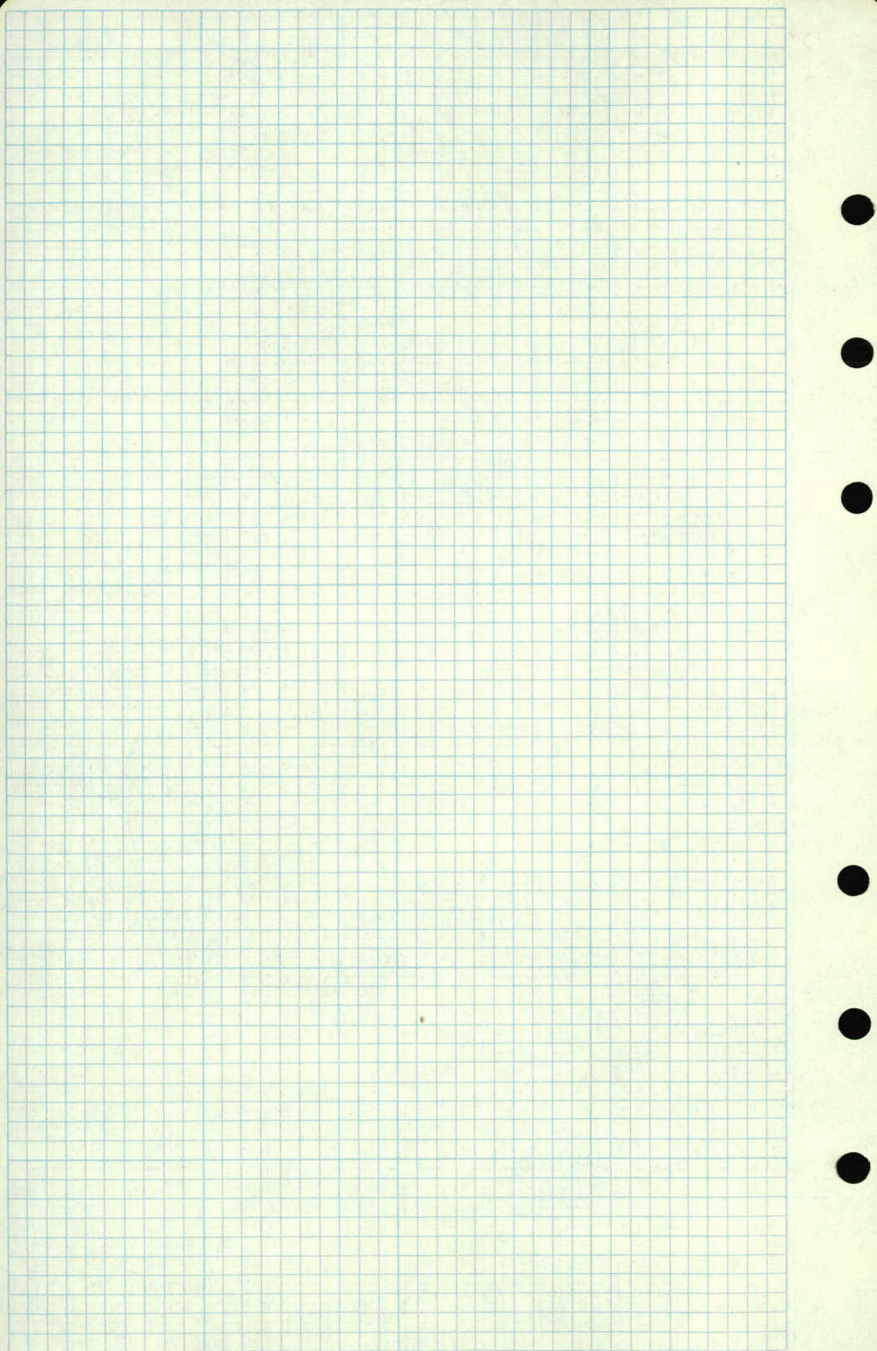
+40-Cor. Gar-31'

+31-43'SW-18'

3

12' 12'





6
X SECTIONS
BURSON AVE
FIRST ST TO SECOND ST

STA	+	π	-	ELEV
B.M	1.54	943.92		942.38
0+00				38.8
+30				39.2
+50				39.2
1				39.4
+44	S.W.			39.1
+50				39.0
+94	GARAGE			38.7
2				38.7
T.P.	5.07	943.73	5.26	938.66
+02	HAND	DITCH		38.7
+14	DRIVE			38.6

L ♀ R

Top Hydt N.E COR. BURSON AV. + 10157

5.1

5.4 5.4 5.9 5.3 4.8 4.7 5.0 4.4 3.8 3.8 3.7 ✓
50 40 26 18 6 12 16 25 40 50

H₀

4.9 4.9 4.6 6.1 5.3 4.8 4.7 4.7 3.9 3.4 ✓
50 32 23 18 15 6 14 20 36

4.6 4.6 4.4 6.0 5.1 4.5 4.7 4.7 3.8 3.5 3.4 ✓
50 37 22 17 14 10 15 23 30 50

39.78

4.8 4.4

H₀ 29.5

4.5 4.4 4.6 6.0 5.5 5.0 4.9 5.1 5.0 4.5 3.9 3.9 ✓
41 27 21 16 14 7 11 17 24 39 50

4.87 39.06 5.2
33.6

GAR.

4.8 5.2 5.9 5.4 5.2 5.3 5.0 4.6 5.2 5.0 ✓
33 21 15 7 12 13 32 37 50

5.3 5.4 5.5 5.7 5.5 5.0 ✓
81 50 41 22 17

GAR. 38.91

4.87 4.9 5.2 5.5 5.1 5.1 5.1 5.0 4.7 ✓
80 50 25 13 4 14 34 50

STA	+	π	-	ELEV
-----	---	-------	---	------

943.73

2+24

38.6

+50

38.6

3

38.6

+31

S, W

38.6

+45

38.7

+50

38.7

+80



39.0

4

39.1

+50

39.9

+58

M.H

L k R

5.0 5.3 5.6 5.5 5.3 5.1 5.1 5.0 5.1
50 25 20 14 8 7 25 50

5.1 5.1 5.0 5.6 5.2 5.1 5.1 4.9 5.5 5.3 ✓ FOUND a
50 30 19 15 6 10 19 31 50 4.34 2.3
57.3

5.3 5.5 5.3 5.6 5.3 5.1 5.2 5.3 5.2 4.9 4.7
50 26 16 15 8 11 18 24 31 50

5.1
G. AR 38.87
4.86 5.0
31
W 39.00
4.73
18.1

5.1 5.1 5.3 5.0 5.1 5.0 5.2 5.1 ✓
50 30 14 10 13 26 50

3.7 4.0 4.9 5.1 4.9 4.7 4.9 4.7 5.0 4.6 4.8 5.2 ✓
50 35 21 15 11 12 18 18 22 29 50
FILL STA 2.5 44
3.9 4.5 4.9 4.7 4.6 4.8 4.7 4.8 4.6 4.8 5.3 ✓
38 25 17 12 10 13 15 21 29 50

1.4 1.4 2.0 3.5 4.0 3.8 3.8 4.2 4.1 4.3 4.9 5.5 ✓
50 38 34 23 14 6 12 15 21 26 50

Top Bottom
940.00 3.73 12.13 31.60

STA	+	π	-	ELEV
-----	---	-------	---	------

943.73

5				40.8
---	--	--	--	------

+20		DRIVE		41.1
-----	--	-------	--	------

+50				41.3
-----	--	--	--	------

+82				41.2
-----	--	--	--	------

+92				41.1
-----	--	--	--	------

6 +10.87	$\pm$	2nd ST		41.3
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B.M.		1.35	942.38	942.38
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L

4

R

1.5 1.9 2.7
50 26 13

2.9 3.1 2.8 3.0 3.4 3.9
— 12 15 27 31 50

2.6 2.8 2.5 2.4
12 21 50

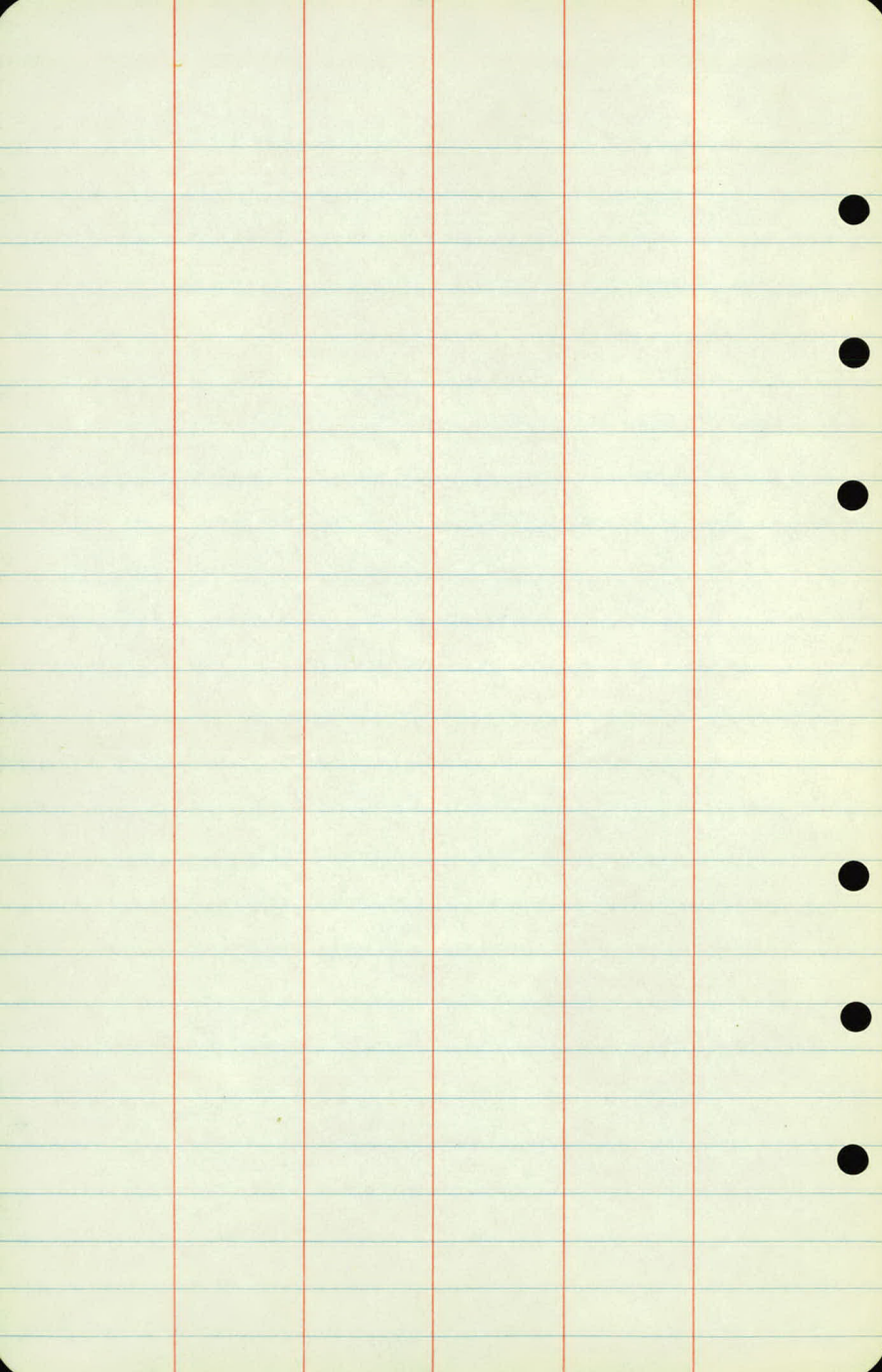
1.8 1.7 2.1 2.2 2.4 2.5 2.2 1.9 2.0
50 27 24 12 12 14 20 50

W CURB W
2.0 2.6 2.4 2.5 2.5 2.8 2.8 2.3 2.4
36 27 20 10 14 20 20 50

W GUT CURB GUT CURB
2.0 2.5 2.5 2.6 3.0 2.5 3.0 2.5
29 29 11 30 30 50 50

2.4

Top Hydt NE COR BURSON AV. + 1st ST



BENCH - LEVELS

STA	+	π	-	ELEV
B.M	6.61	939.90		933.29
	7.90	945.88	1.92	937.98
	3.98	943.67	6.19	939.69
B.M.			12.9	942.38

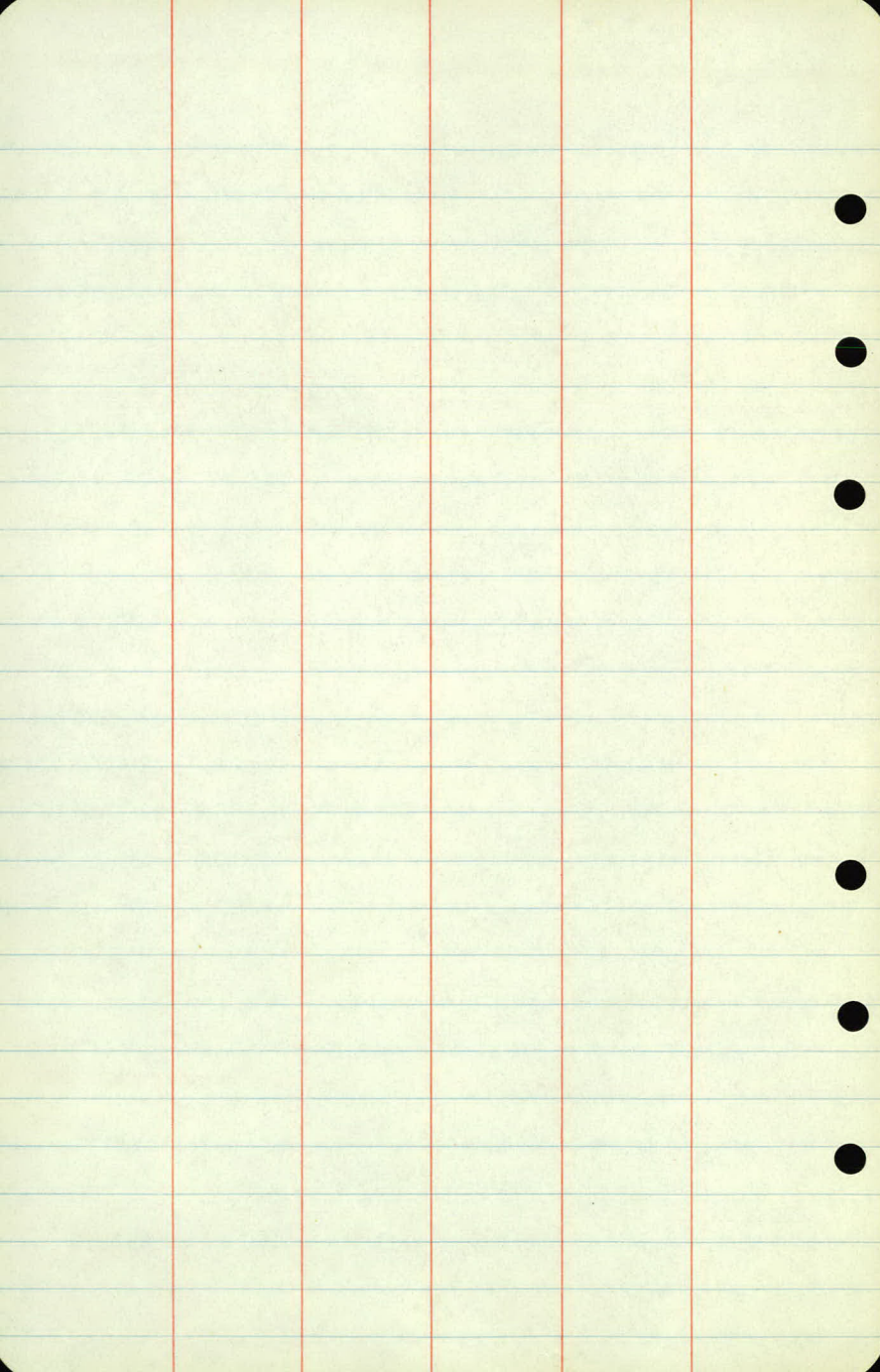
LT

E

RT

U.S.G.S. IN ST. MARYS SCHOOL YARD

Top. Hydt. N.E. COR. BURSON AV. + FIRST ST



Sta	+	-	Elev
B.M.	6.66	939.95	(933.29)
	8.12	946.11	1.96 937.99
	3.77	943.47	6.41 939.70
B.M.	0.19	942.57	1.09 942.38
	1.88	939.86	4.59 937.98
	3.77	937.18	6.66 933.20 (933.29)

L

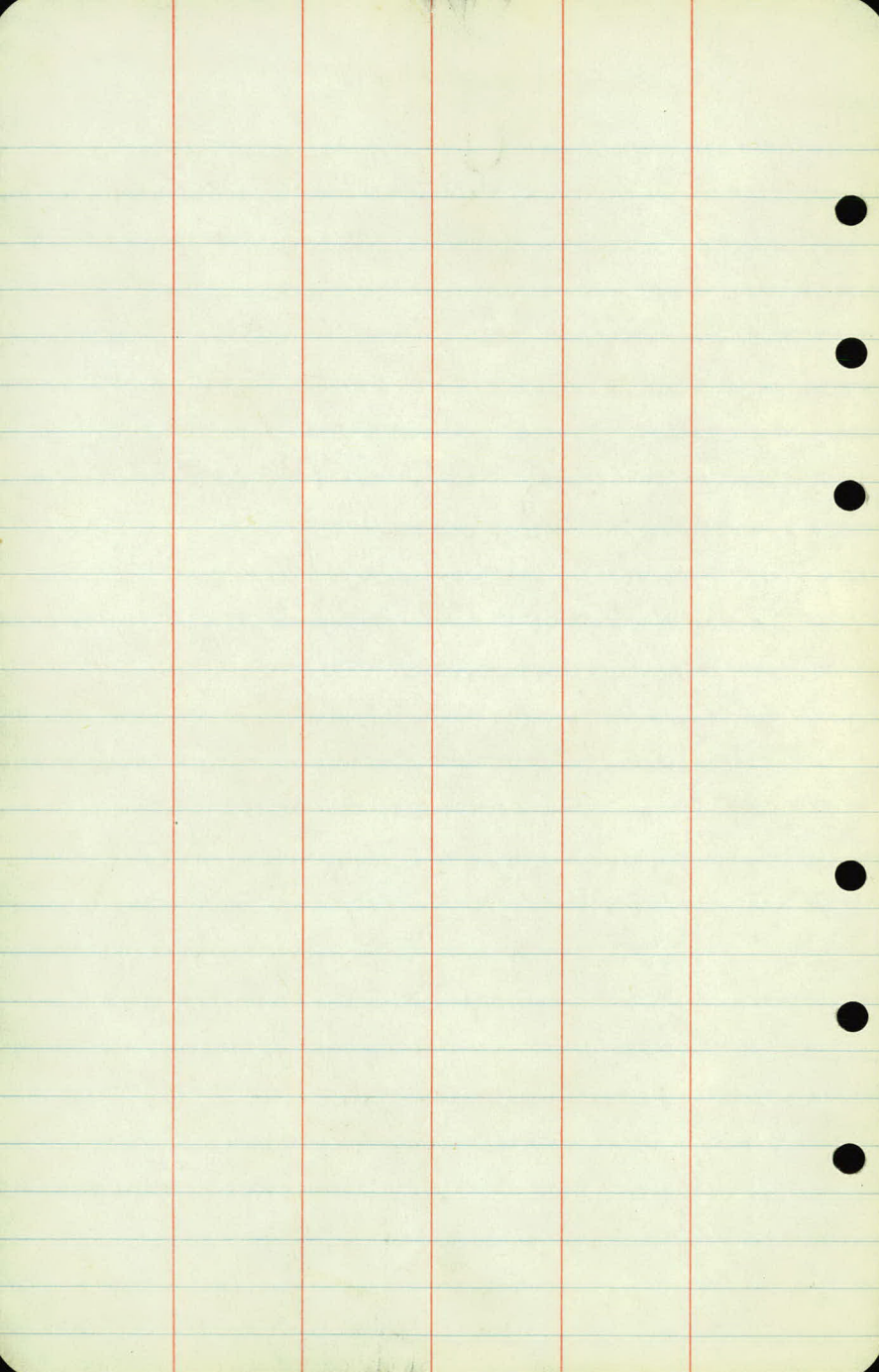
E

R

U.S.G.S B.M. in St. Marys School Yard

Top Hydt. N.E. COR BURSON AV + FIRST ST

U.S.G.S B.M. in ST. MARYS SCHOOL YARD



Ditch Grades

Burson St & First St.

Sta	+	Δ	-	Elev	
B.M	4.27	90427		900.00	Assum
0+00				899.07	
+25				897.17	97.13
+50				97.4	97.19
+75				97.5	97.25
1				97.3	97.31
+25				97.5	97.37
+50				97.6	97.43
+75				97.8	97.49
2				98.0	97.56
+25				98.1	97.61
+50				98.1	97.67
+75				98.0	97.73

Ditch

Grade Rod

Top Hrd. N. W. Cor First & Stickney

7.20

7.10

7.14.

6.9

7.08.

6.8

7.02.

7.0

6.96.

6.8

6.90.

6.65

6.84.

6.5

6.78.

6.3

6.72.

6.2

6.66.

6.2

6.60.

6.25

6.54.

Sta	+	+	-	Elev	
		90427			
3				98.1	97.79
+25				98.0	97.85
+50				98.5	97.91
+75				98.3	97.97
4				98.4	98.03
+25				98.1	98.09
+50				98.3	98.45
+75				98.3	98.21
5				98.4	98.27
+25				98.4	98.33
+50				98.4	98.39
+75				98.4	98.45

Ditch

Grade Rod

6.2

6.48.6

6.3

6.42.

5.8

6.36.

6.0

6.30.

5.9

6.24.

6.2

6.18.

6.0

6.12.

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6

984 98.51

+25

984 98.57

+50

98.6 98.63

Ditch

Grade Rod

5.9

5.76

5.9

5.70

5.7

5.64

