

BK. 35 - Dr 16

OFFICE OF COUNTY ENGINEER
RAMSEY CO. MINN.

Ditch Surveys

Misc. Surveys

From..... To.....

Road Acc't. No.....

Date Filed 4/40

File.....

35 - 16

Profile Levels
on ditch North Side "F"
East S. T. H 8

1/2/40

ROP
AM
LS
CF

Sta.	T	T	-	Elev
B.M.	10.31	110.31		100.00 - F.L. - thru "F"
+50			8.8	01.5
+80 Δ			8.9	01.4
1			9.0	01.3
+50			11.4	98.9
2			11.1	99.2
+50			11.3	99.0
3			10.4	99.9
+45 Δ			10.8	99.5
4			10.5	99.8
+50			10.7	99.6
5			10.8	99.5
T.P.	7.08	111.72	5.67	104.64
+36 Δ			11.5	00.2
+78 Δ			11.6	00.1
6			12.3	99.4
+50			11.6	00.1
7			13.4	98.3
+50			13.9	97.8
8			14.1	97.6
+50			13.9	97.8
9			13.7	98.0

Note

F.L. Culx under Highway = 97.80

F.L. Culx under "F" = 0+00

Sta.	+	π	-	Elev.
		111.72		
9 +50			14.2	97.5
10			13.7	98.0
+50			13.6	98.1
11 + 15 = 0 + 00			13.2	98.5
along N. ditch				
0 + 50			13.8	97.9
1			13.9	97.8
T.P	4.86	107.91	8.67	103.05
+50			9.1	98.8
2			7.9	100.0
+50			7.6	00.3
3			7.5	00.4
+50			7.5	00.4
4			7.5	00.4
+50			7.5	00.4
5			7.1	00.8
+50			6.6	01.3
6			6.0	01.9
+50			7.0	00.9
shots at Random in Swamp				
			6.8	01.1
			8.3	99.6
			8.1	99.8
T.P	5.91	108.96	4.88	103.05

Intersection Ditch Leading N. to swamp

Sd.	+	π	-	Elev.
		108.96		
Back to main d. 166				
11+50			10.1	98.9
12	Δ		10.2	98.8
+50			9.8	99.2
13+20	Δ		10.5	98.5
+50			10.1	98.9
14			9.7	99.3
+50			9.5	99.5
15+15	Δ		9.8	99.2
+50			9.5	99.5
16			9.6	99.4
+50			9.4	99.6
+80	Δ		9.4	99.6
17+12	Δ		9.7	99.3
+50			9.8	99.2
18			9.9	99.1
+50			9.6	99.4
19+08	Δ		9.5	99.5
+50			9.5	99.5
20			9.5	99.5
+63	Δ		9.3	99.7
21			9.5	99.5
FL - 8M			8.49	100.47

36" C.M. under "F"

Check

Sta.	+	Σ	Σ	Elev
		108.96		
I.P.	6.95	114.90	1.01	107.95
	6.92	114.33	7.49	107.41
	3.42	116.25	1.60	112.73
B.M.			16.30	100.05
F.L. Under Highway			18.30	97.80 ✓

Ditch Thru Howard St.
N. of Carpenter.

Transit Notes
West Side Howard

Drawn up
12/9/39

①

Lt.

R.L.

3450.

$11^{\circ}36'$

2400

P.L.

$51^{\circ}10'$

1402.5

P.L.

$20^{\circ}45'$

0400 & Howard

①

87°20'

L Howard St.

Transit Notes East Side Howard ⁽²⁾

Sta	Pt	Lt.	Angle
-----	----	-----	-------

1+53	P.I.	36°08'	
------	------	--------	--

1+31	P.I.		52°00'
------	------	--	--------

0+00 & Howard

2

95031

Howard St

(3)

Sta.	+	↑	-	Elev.
B.M.	4.19	1027.57		1023.38
T.P.	2.71	1025.23	5.05	1022.52
T.P.	5.66	1025.93	4.96	1020.27
B.M.			7.42	1018.51

Cross Sections

West of Howard

B.M.	0.94	1019.45		1018.51
------	------	---------	--	---------

0 + 00	± Howard	1.0	18.5
--------	----------	-----	------

+14		1.9	17.6
-----	--	-----	------

+22	End 24" C.M.	6.24	13.21
-----	--------------	------	-------

+50		6.0	13.5
-----	--	-----	------

1 + 02.5		5.9	13.6
----------	--	-----	------

+50		6.7	12.8
-----	--	-----	------

2		7.9	11.6
---	--	-----	------

+50		7.8	11.7
-----	--	-----	------

3		9.0	10.5
---	--	-----	------

(4)

Sta.	+	π	-	Elev.
		1019.45		
3+50			8.6	10.9
3+75			9.6	09.9
4			9.2	10.3
+50			8.5	11.0
5			9.2	10.3
+50			9.3	10.2
B.M.			0.96	1018.49
				1018.51

5

(5)

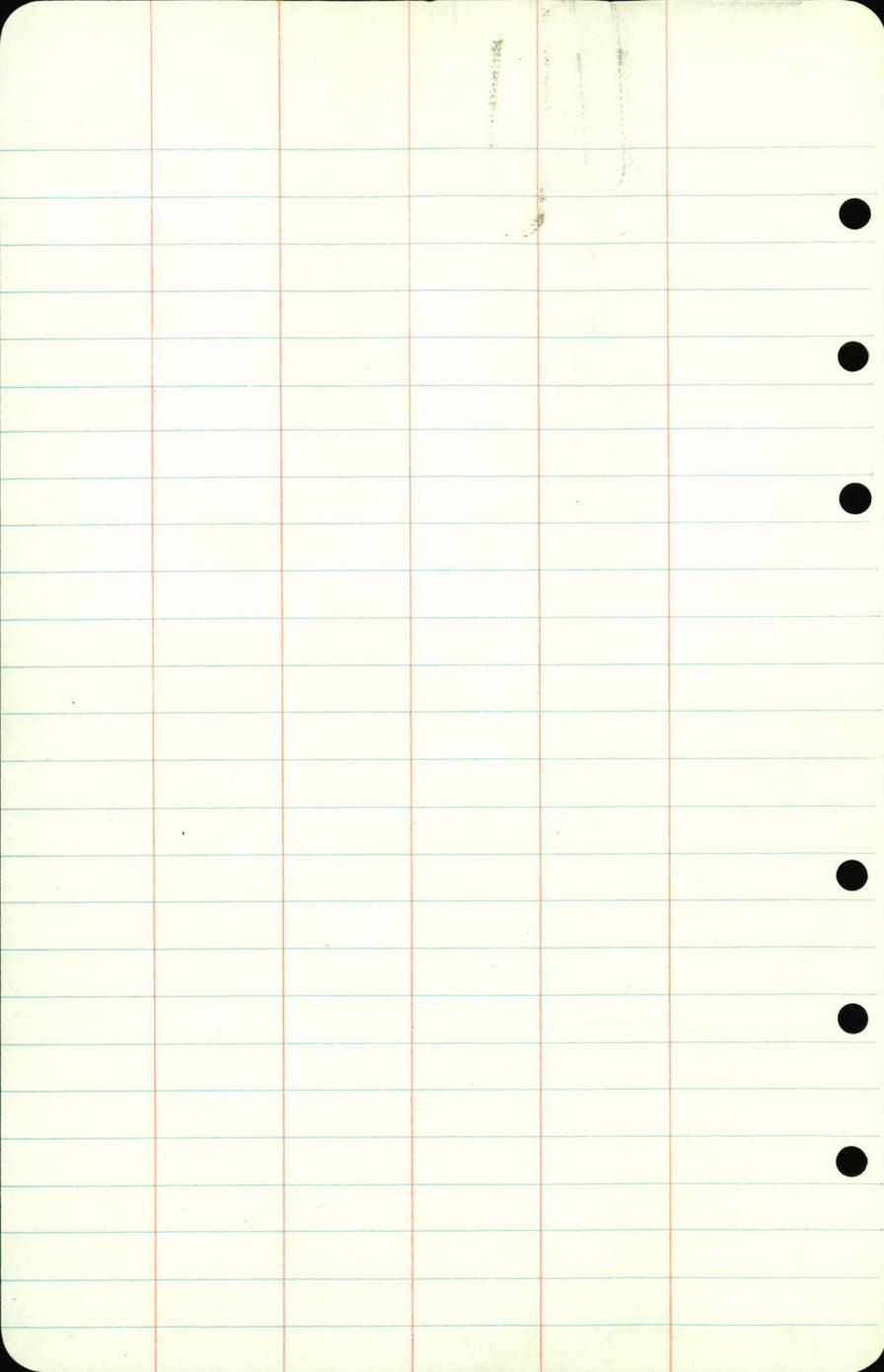
Cross Sections
East Side Howard

(6)

Sta.	+	π	-	Elev.
B.M.	2.81	1021.32		1018.51
0+00	E Howard.		2.9	18.4
+11			3.5	17.8
+22	End 24" C.M.		7.88	13.44
+50			7.3	14.0
1			6.7	14.6
+31			6.8	14.5
+53			7.2	14.1
2			7.0	14.3
+50			6.7	14.6
3			7.0	14.3
+50			6.9	14.4
4			7.1	14.2
+25 Beg. New Ditch				
+50			8.1	13.2

Spike Guy Pole East Side Howard.

[illegible]



Profile Levels
COUNTY ROAD A₂
from Rice St.
to Cortland Ave.
for Proposed Bridge

1/4/39

ZOF
AM
LG
CF

4 sheets.

B.M.	2.91	848.10		845.19
T.P.	12.14	857.66	2.58	845.52
T.P.	10.80	867.84	0.62	857.04
B.M.			5.55	862.29

0+00

5.55

+50

5.1

62.7

1

4.7

63.1

+50

4.5

63.3

2

3.6

64.2

+50

2.7

65.1

3

2.1

65.7

+50

1.6

66.2

4

0.6

67.2

T.P.

11.52

878.75

0.61

867.23

34.4

+50

10.2

68.6

5

8.1

70.7

+50

5.4

73.4

6

3.6

75.2

+50

1.9

76.9

T.P.

10.99

887.87

1.87

876.88

7

8.3

79.6

+50

5.8

82.1

8

3.6

84.3

+50

1.5

86.4

+7485

0.35

87.52

Top Conc. Platform N.E. Cor. Bathhouse

Top Mon. Rice St. and Co. Rd A₂

Begin Bridge - Edge Header

Sta	t	Δ	-	Elev.
		887.87		
9			0.05	87.82✓
+28			0.15	87.72✓
+50			0.15	87.72✓
+76.7			0.35	87.52✓
T.P.	9.64	897.18	0.33	887.54 (76.7)
10			9.1	88.1
+50			7.7	89.5
11			6.6	90.6
+50			5.6	91.6
12			5.4	91.8
+50			4.7	92.5
13			3.9	93.3
+50			3.2	94.0
14			2.6	94.8
+50			1.6	95.6
15			0.6	96.6
T.P.	7.68	904.23	0.63	896.55
+50			7.1	97.1
16			6.4	97.8
+50			5.8	98.4
17			5.3	98.9
+50			5.1	99.1
18			4.7	99.5
+50			4.7	99.5

Edge Bridge - Edge Header

Sta.		Σ		Elev.
		904.23		
19			4.6	99.6
+50			4.7	99.5
20			5.0	99.2
+50			5.2	99.0
21			5.5	98.7
T.P.	3.10	901.82	5.51	898.72
+50			3.5	98.3
22			4.1	97.7
+50			4.6	97.2
23			5.2	96.6
+50			5.5	96.3
24			6.0	95.8
+15.50			6.3	95.5
B.M.			6.50	895.32

Under Present Bridge

T.P. Sta. 4	1.75	868.98		867.23	
T.P.	7.24	866.91	9.31	859.67	
+74			+13.0	79.9	
+88			+6.0	72.9	
+02			+2.0	68.9	
+19			3.8	63.1	
+25.5			3.23	63.68	Top Rail
+28			3.8	63.1	E tracks
+30.5			3.25	63.66	Top Rail

Top Man - Az and Cartland

Note All shots
Under bridge
taken at bents
unless otherwise
noted -

Sta	+	π	-	Elev
		866.91		
9+38 } ^{Shoring}			4.0	62.9
+38 }			1.4	65.5
+47			1.0	65.9
+62			+0.7	67.6
+77			+4.5	871.4 ✓
			^{Shoring}	
T.P.	13.23	879.93	0.21	866.70
T.P.	11.84	891.70	0.07	879.86
T.P. 176.7			4.12	887.58
				887.54

Profile of Ditch
Fulham St.
from Summer St. to Roselawn Ave.

Sta.	+	+	-	Elev.
B.M.	0.30	100.30		100.0
Floor shed			4.8	95.5'
0+00	Cor. Ditch		5.8	94.5
+50			7.3	93.0
1			7.8	92.5
+50			8.0	92.3
2			8.1	92.2
+50			8.1	92.2
3			7.4	92.9
+26	Int. with Fulham		7.4	92.9 Ditch
+50			7.5	92.8
4			8.5	91.8
+50			10.3	90.0
5			10.8	89.5
+50			12.6	87.7
T.P.	2.91	92.34	10.87	89.43.
6			5.6	86.7
+50			5.9	86.4
7			6.3	86.0
+50			6.4	85.9
8	Int. Roselawn Ditch		6.7	85.6
+50			6.7	85.6
+69	FL. 18" C.M.		8.5	Under 8384 Roselawn
T.P.	8.74	97.66	3.42	88.92
+9+33	FL. 24" C.M.		14.2	83.46

Top Cor Fe Post

Sta	+	π	-	Elev
		97.66		
9+33	Ditch		13.2	84.5'
+ 43			12.1	85.4
10+50			11.7	86.0
+ 42			12.1	85.6

Note: Culvert under Roselawn - S. End 18".

N. End 24"

Culvert buried and of no value.

Tile line N. side Roselawn apparently
from Golf Course Ditch Unknown

Profile Levels

Alley

Between 9th + 10th

" Stewart + Moorehead

Rec'd. 7-31-51

R.C.

Drawn up

Sta	+ B.M	Δ	- B.M	Elev
0+00	0.24	942.92		942.68
0+15	3.79	942.17	4.54	938.38

0+00 $\pm$ North 40' R.O.W

0+15

0+20 North Prop Line North St

0+50

1

+50

2

5' Lt

*

Top Hyd N.E. Cor 8th & Moorehead
SPK in PP S.E. Cor Alley + 9th
45^{37.7} 45^{37.7}

38.0
42

38.0
42

37.1
51
10

37.3
49

37.6
46

37.6
46

37.3
49

37.3
49

37.1
51

37.2
50

36.3
59

36.4
58

35.7
65

35.8
64

Sta + π - E/W

942.17

2+50

3

+10

Top S/ape

+16

Int R R Ditch

100' N.E Along R R Ditch

5.4t

2

35.5

35.6

67

66

35.3

35.3

69

69

106.

35.8

64

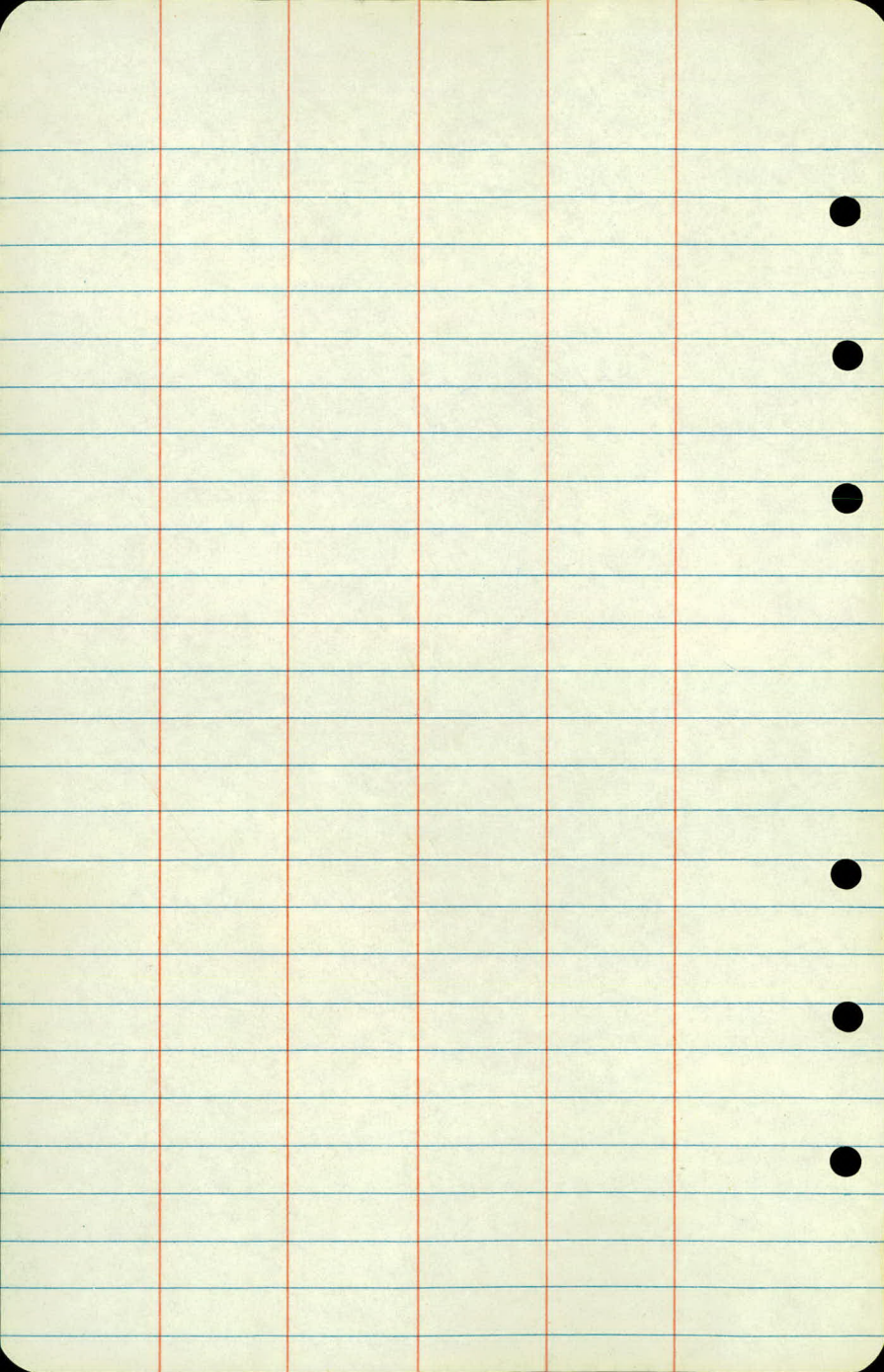
+ 12

33.3

89

32.7

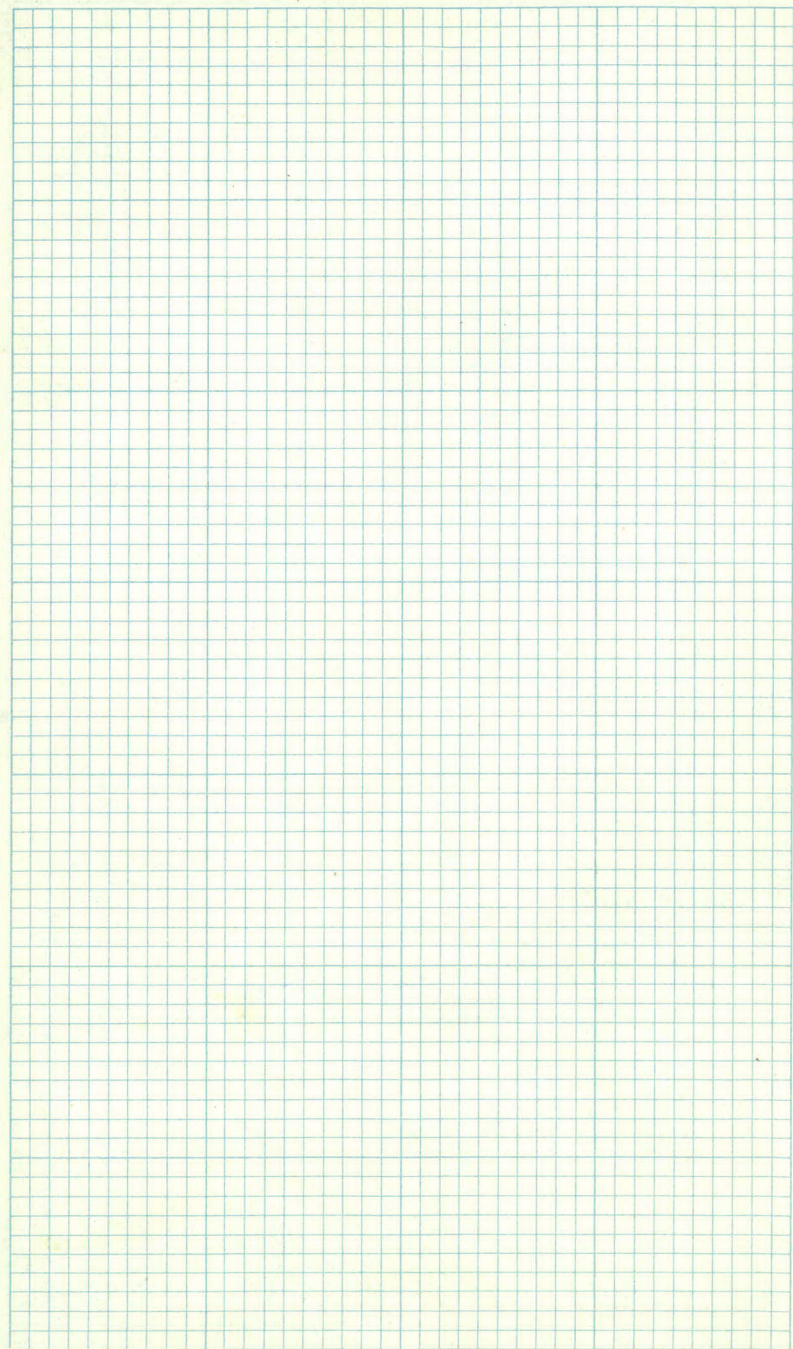
95



Alley Vacation
Block 7 & 28
Ramaley Park

Rev. 8/10/51

drawn *yes*



Clarence St.

Cemetery

BIK 36

Block 7

69.10

Baseline

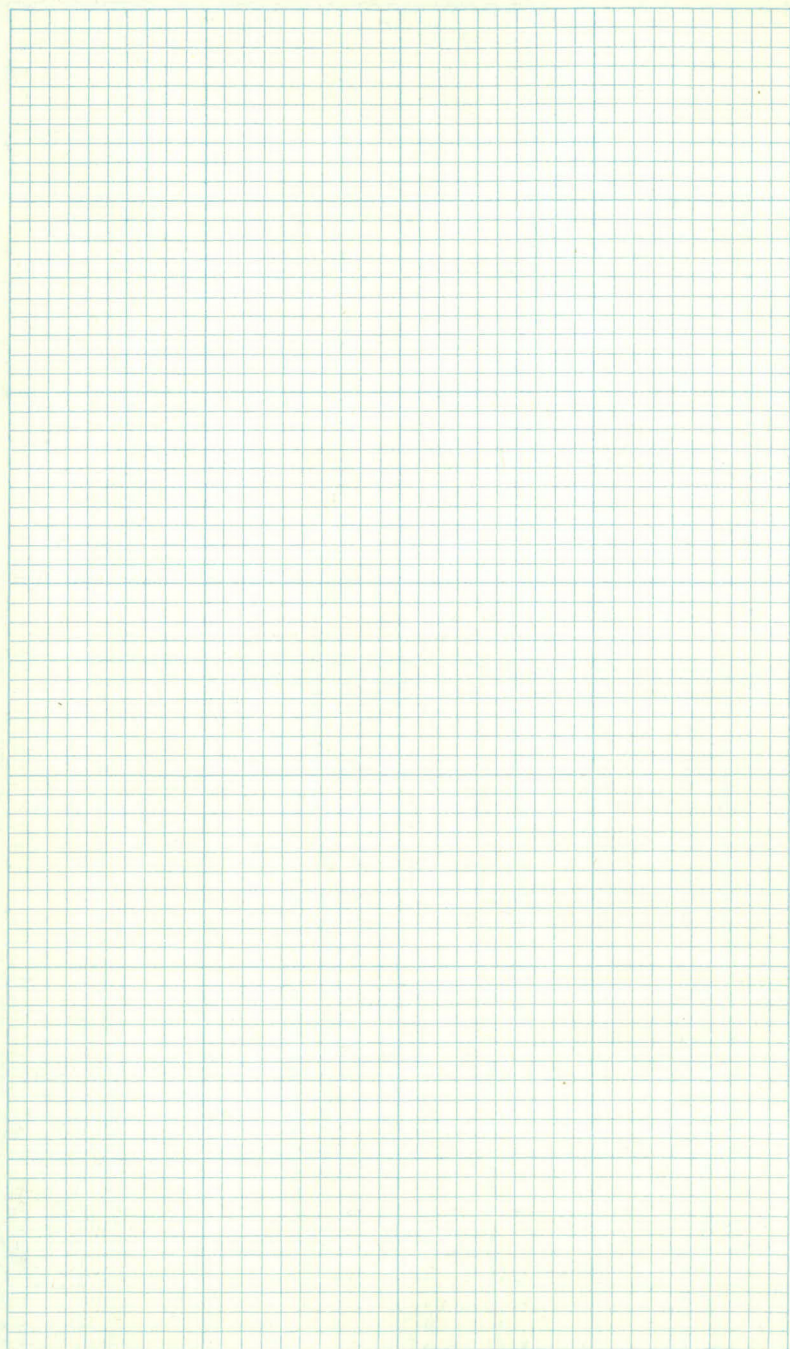
76.6

Block 28

200

200





Topography

Base Line

West Line Lot 7

Sta 2+00 = N.E. Cor Lot 7

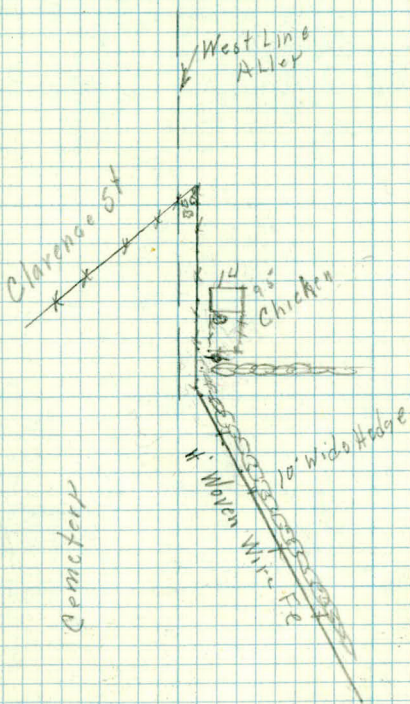
3

2

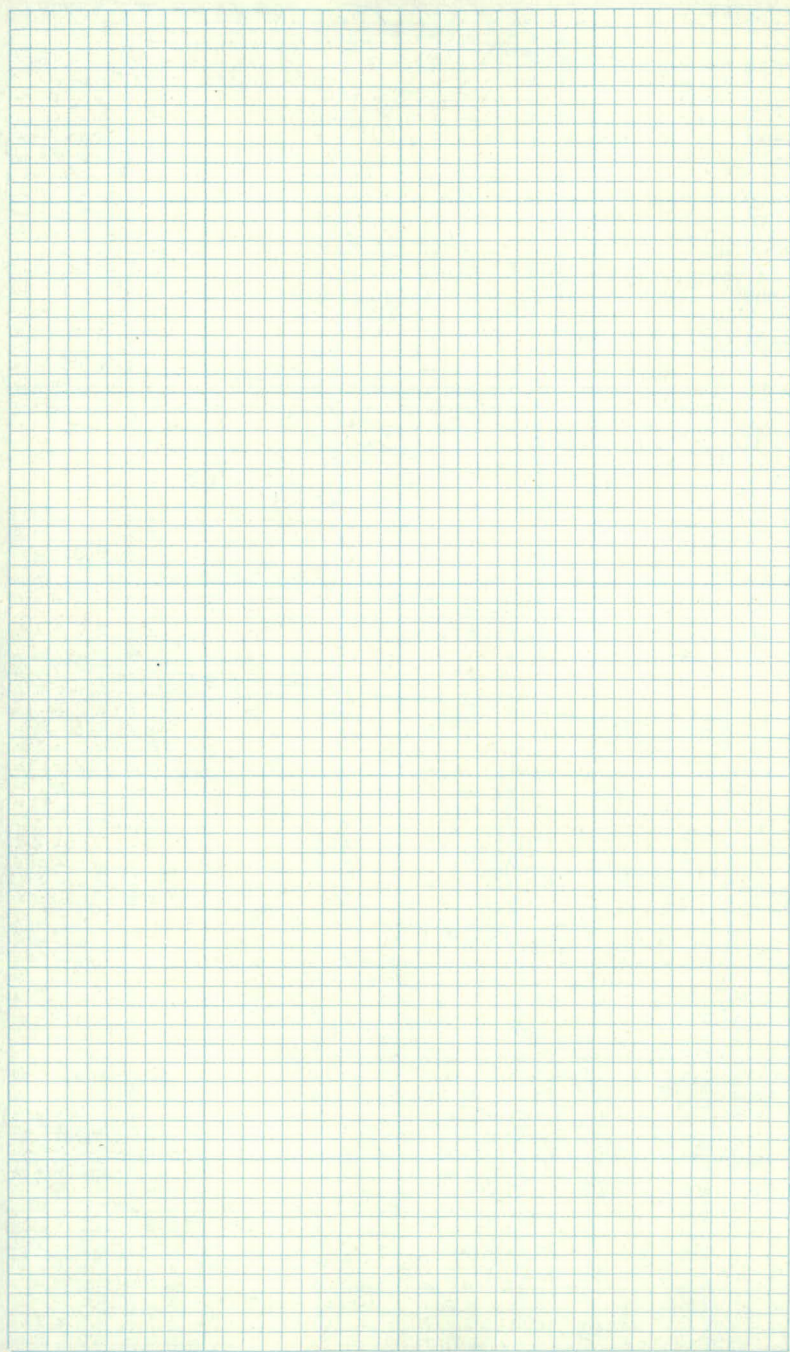
1

0

+95 Bush 8'	+55 Cor Shed 165'
+90 8" Ash 8'	+46 Cor Shed 17'
	+40 Tree 19'
	+22 Chicken Fe 165'
	+19 Rge Tie Fe



- +08 Fe Cor 9.5'
- +03 Ash 7'
- +02 Bush 1'-4'
- +028 Fe x 2'
- +00 Fe 10'
- +75 Fe 10.1'
- +50 Fe 10.0'
- +25 Fe 10.5'
- +18 T.P. 21'
- +15 Cor Hedge 12.5'
- +13 Range T.P. Hedge
- +04 Dia Fe 11' Hedge
- Fe 12' Hedge 17.5'
- 195 Fe 24.5 Hedge
- 0+60 Fe 32.5 Hedge
- 110m Hedge 37.5' Hedge



Profile Levels

Akley New Brighton

Between 5th ^{Av. N.W.} & 6th ^{Av. N.W.}
6th ^{St. N.W.} 5TH 8

1/2 Block 6 First Addn. to
New Brighton

Cloudy

9-18-51

HAW

AM

M.B.

Rec'd. 9-20-51

DRAWN UP

9-20-51

Sta	+	π	-	Elev.
B.M	7.71	926.84		919.13

0+00	$\neq$	6 th & Alley		26.4
------	--------	-------------------------	--	------

T.P	7.02	931.95	1.91	924.93
-----	------	--------	------	--------

+50				26.2
-----	--	--	--	------

1				27.1
---	--	--	--	------

+50				26.9
-----	--	--	--	------

✓				26.9
---	--	--	--	------

+50				26.4
-----	--	--	--	------

+60		Garage RV		
-----	--	-----------	--	--

3				25.0
---	--	--	--	------

Lt

E

Rt

Cleveland Ave

Top Hyd N.E. Cor 5th St NW 4 6th NW
$$\begin{array}{r} 26.4 \\ 0.4 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 24.9 \\ 1.9 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 0.4 \\ 34 \\ 41 \\ 94 \\ \hline 50 \quad 100 \quad 150 \end{array}$$

$$\begin{array}{r} \$ \text{ Pair} \\ 937 \\ 165 \end{array}$$

$$\begin{array}{r} 27.2 \\ 4.8 \\ \hline 25 \end{array}$$

5.8

$$\begin{array}{r} 26.5 \\ 5.5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 27.3 \\ 4.7 \\ \hline 25 \end{array}$$

4.9

$$\begin{array}{r} 26.7 \\ 5.3 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 26.1 \\ 5.9 \\ \hline 25 \end{array}$$

5.1

$$\begin{array}{r} 26.3 \\ 5.7 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 27.0 \\ 5.0 \\ \hline 25 \end{array}$$

5.1

$$\begin{array}{r} 26.6 \\ 5.4 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 27.0 \\ 5.0 \\ \hline 25 \end{array}$$

5.6

$$\begin{array}{r} 26.7 \\ 5.3 \\ \hline \end{array}$$

$$\begin{array}{r} 26.62 \\ 5.33 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 24.7 \\ 7.3 \\ \hline 25 \end{array}$$

7.0

$$\begin{array}{r} 25.5 \\ 6.5 \\ \hline 25 \end{array}$$

Sta	+	π	-	Elev
-----	---	-------	---	------

3+50		931.95		20.0
------	--	--------	--	------

468				18.16
-----	--	--	--	-------

Lt

2

Rt

19.7

123

20

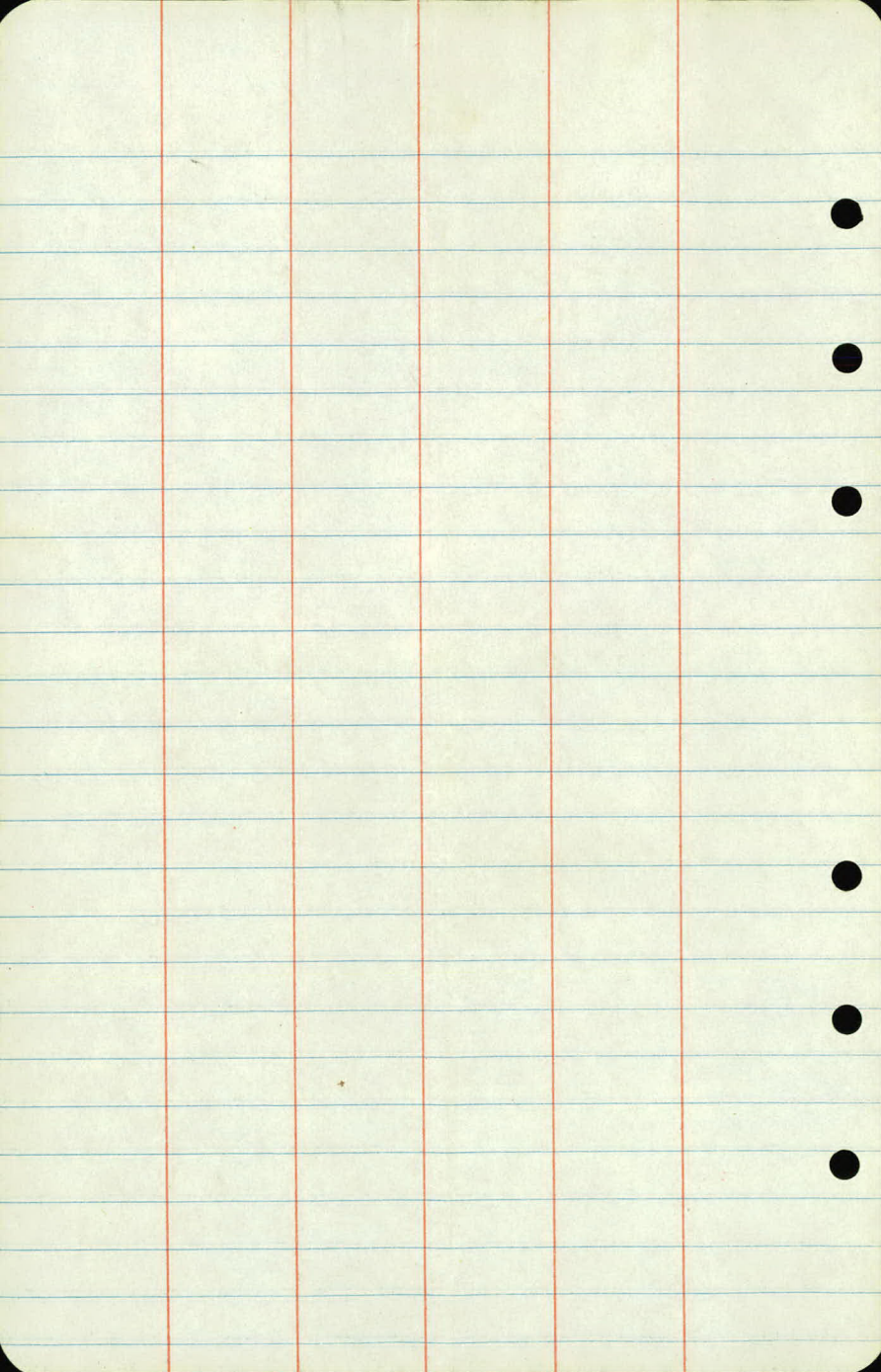
120

21.0

110

25

1379



¢ Profile
for
Establishing Grade

Alley betwn. Eustis & Malvern
From Ione to Spring

Rec 6-5-50

Sta	+	π	-	Elev
BM	1.85	101.85		100.00 (assumed)

0+00	±	Zone St.		96.9
------	---	----------	--	------

+11				96.7
-----	--	--	--	------

+14				96.5
-----	--	--	--	------

+18				96.8
-----	--	--	--	------

25				96.5
----	--	--	--	------

+50				97.2
-----	--	--	--	------

+76		Gar. Floor Lt		
-----	--	---------------	--	--

1				97.5
---	--	--	--	------

+28		Gar Floor Lt		
-----	--	--------------	--	--

+50				97.4
-----	--	--	--	------

+56		Gar Floor Lt.		
-----	--	---------------	--	--

+68		Gar Floor Rt.		
-----	--	---------------	--	--

6-2-50

GB
AM
MB

Lt

C

Rt

1

Top Pave.

Ctr. intersection Eustis & Ione

6.8	6.2	5.0	4.2	3.5
100	50		50	100

52

54

51

54

97.79
Gar Floor

4.06 4.7

97.47
4.38

4.4

97.35
4.5~~4.5~~

4.5

97.35
4.597.65
4.20

Sta	+	π	-	Elev
		101.85		
1 + 93		Gar Floor Rt		
2 + 00		97.40 Gar Floor Lt		97.2
+ 34		Gar Floor Rt		
+ 50				97.1
+ 95		Gar. Floor Rt.		
3 + 00				97.4
+ 29		Gar Floor Rt		
+ 50				97.8
		Gar Floor Rt		
+ 55				
4.				98.4
+ 02	2.96	103.56	1.25	100.60
+ 50				99.5

LT

2

RT

2

97.65

4.20

97.40

4.45

4.7

97.50

4.35

4.8

98.20

3.65

4.5

98.55

3.30

4.1

98.75

3.1

3.5

HI
↑

Cor School W.T. 2

1.25

Cor S.W. S. Side
School

0.4

4.1

Sta	+	π	-	Elev
-----	---	-------	---	------

103.52

5 + 00

99.7

+ 50

99.5

6

98.7

+ 43

94.8

+ 50

94.7

+ 55

94.9

TP

4.43

⁹⁶ 105.93

2.03

101.53

BM

5.92

100.04

100.01

100.00

Lt

C

Rt

3.9

4.1

4.9

8.8

8.9

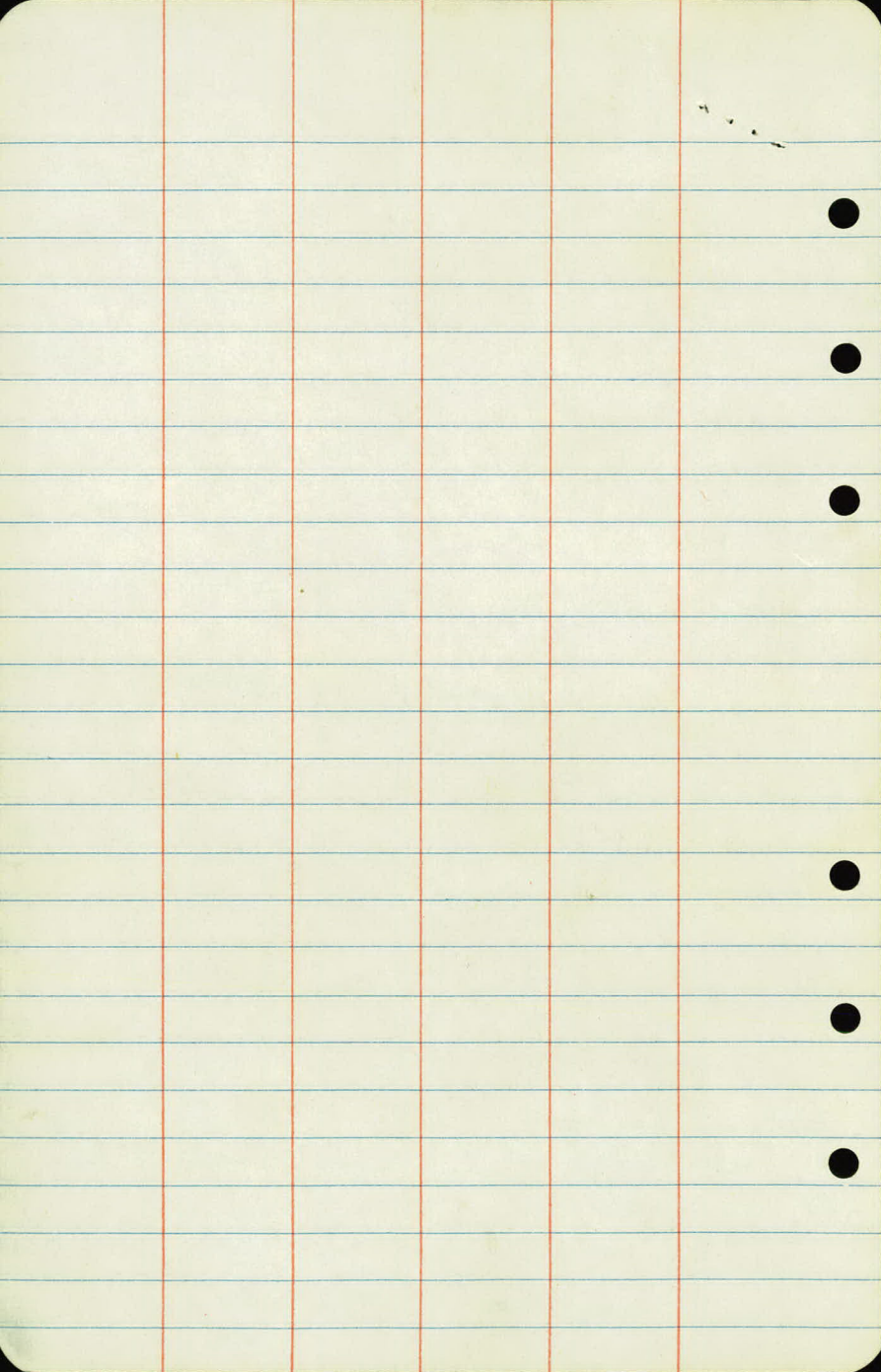
11.2
10010.2
50

8.7

7.6
506.4
100

Top Hyd SW cor Eustis St. & Spring St.

Top Pav. Ctr intersection Eustis St & Lane St



3/27/52 1

A.M.
L.C.
M.B.
M.Mc

PROFILE LEVELS

FERNWOOD

CO-RD-B To

STA	+	π	-	ELE
B.M.	1.98	960.26.		958.28
T.P.	5.31	959.51.	6.06	954.20.

0+00 = $\frac{1}{2}$ Co. RD B + FERNWOOD

1+00

3+31 = $\frac{1}{2}$ BURKE

6+55 = $\frac{1}{2}$ ELDRIDGE

T.P.	7.45	958.00.	8.96	950.55.
------	------	---------	------	---------

9+75 LOW SPOT ON LT.

13+15 = $\frac{1}{2}$ SKILLMAN + FERNWOOD

T.P.	7.93	965.44.	0.49	957.51.
------	------	---------	------	---------

0+00 = SKILLMAN + FERNWOOD

To LINDY-ST

3+00.

5+36 = $\frac{1}{2}$ LINDY-ST + ^{SKILLMAN}

T.P.	2.22	955.99.	11.67	953.77
------	------	---------	-------	--------

LT

E.

R.

Top N.E. COR Bottom - STEP 1244 Co. RD. B

5.3 54.2 ✓

6.8 52.7

4.7 54.8 ✓

7.9 51.6 ✓

46.8 41.5 46.6

11.2 11.5 11.4
220 137 80

7.0 51.0

9.6 57.4 ✓

60.6

4.8

56.6

8.8

STA	+	π	-	ELEV
				955.99.

0+00	=	$\frac{1}{2}$	SKILLMAN + LINDY
			TO - BURKE

3+35	=	$\frac{1}{2}$	KARYL-PLACE
------	---	---------------	-------------

6+73	=	$\frac{1}{2}$	ELDRIDGE + LINDY
------	---	---------------	------------------

T.P	9.07	960.29.	4.77	951.22.
-----	------	---------	------	---------

10+00	=	$\frac{1}{2}$	BURKE + LINDY
-------	---	---------------	---------------

0+00	=	$\frac{1}{2}$	BURKE + LINDY
			TO FERNWOOD

3+00			
------	--	--	--

T.P.	4.20	960.58	3.91	956.38
------	------	--------	------	--------

B.M			2.27	958.31. (958.28)
-----	--	--	------	------------------

E

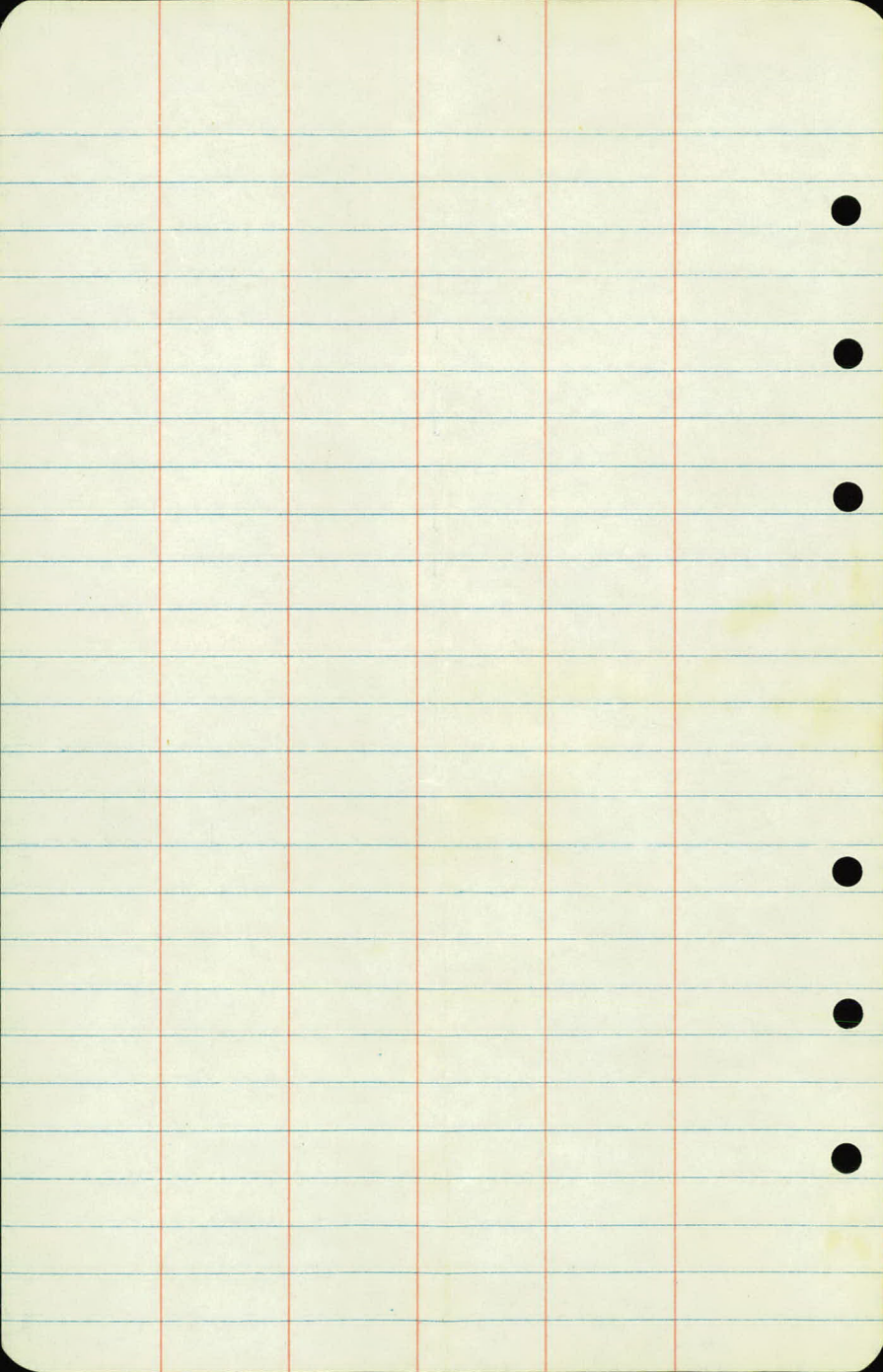
5.4 50.6 ✓

5.0 51.0 ✓

6.1 54.7 ✓

2.2 58.1

Top N.E. COR - BOTTOM - STEP 1244 Co. RD. B



Profile Levels

Groth's Stv

Co. Rd 'B' to 200' No
Sandhurst

Rec'd. 10-2-51
R.C.

10-1-51

HAW

AM

LC

M.B

Drawn Up
10-4-51

Sta	+	Δ	-	Elev
B.M.	12.81	928.28		915.47

0+00	$\pm$ Cold B"			22.6
------	---------------	--	--	------

0+33				23.4
------	--	--	--	------

T.P	13.41	940.96	0.73	927.55
0+70				38.1

1				37.6
---	--	--	--	------

+50				37.7
-----	--	--	--	------

2				36.5
---	--	--	--	------

+50				36.9
-----	--	--	--	------

T.P	6.13	946.57	0.59	940.37
-----	------	--------	------	--------

Lt

E

Rt

2

Spk in P.P. 28' 50' + 150' East of Grotto

25.4	24.1			20.8	19.2
29	42	57		75	91
63	33			31	63
27.7	25.1			23.3	21.9
0.6	32	49		5.0	6.4
23	33.2			33	63
34.5	33.2	22.2		31.5	31.4
15	7.8	13.8	29	9.5	9.6
63	33	15		33	63
36.7	37.2	28.4		35.5	33.5
43	38	12.6	34	5.5	7.5
63	33	15		33	63
36.5	35.8	31.6		34.5	34.6
45	5.2	9.4	33	6.5	6.4
63	33	15		33	63
37.1	35.0	32.1		36.4	35.1
39	6.0	8.9	45	4.6	5.9
63	33	15		33	63
36.5	36.7	32.3		37.8	36.5
45	43	8.7	41	32	45
63	33	15		33	63

Sta	+	π	-	Elev
		946.50		

3				38.8
---	--	--	--	------

+50				40.5
-----	--	--	--	------

4				40.9
---	--	--	--	------

B.M	7.56	946.50	7.56	938.94
+50				41.2

5				41.2
---	--	--	--	------

+50				40.2
-----	--	--	--	------

6				40.0
---	--	--	--	------

+50				40.0
-----	--	--	--	------

LT ~~LT~~ RT

36.7	37.8	32.2		38.7	37.8
98	87	143	77	78	87
63	33	15		33	63

36.8	36.7	32.2		40.0	39.1
97	98	143	60	65	44
63	33	15		33	63

40 37.4	37.2	31.9		40.6	39.7
9.1	93	14.6	51	59	68
63	33	15		33	63

36.7	36.3	32.2		40.8	40.5
9.8	10.2	14.3	5.3	5.7	6.0
63	33	15		33	63

32.1	32.2		41.1	40.8
14.4	14.3	5.3	5.4	5.7
33	15		33	63

40 38.0	38.2	34.2		41.2	41.5
8.5	8.3	12.3	6.3	5.3	5.8
63	33	15		33	63

37.7	37.9	36.7		40.6	41.1
8.8	8.6	9.8	6.5	5.9	5.4
63	33	15		33	63

36.6	37.9	37.8		39.5	40.6
9.9	8.6	8.7	6.5	7.0	5.9
63	33	15		33	63

Sta + π - Elev

946.50

7 37.2

+50 36.4

8 35.7

+50 36.5

9 36.9

LT

L

RT

5

36.0
105
63

37.0
95
33 93

37.6
89
33 37.8
87
63

36.2
103
63

36.3
10.2
33 10.1

35.9
10.1
33

35.4
11.1
63

35.7
108
33

10.8

36.0
105
33

36.5
10.0
33

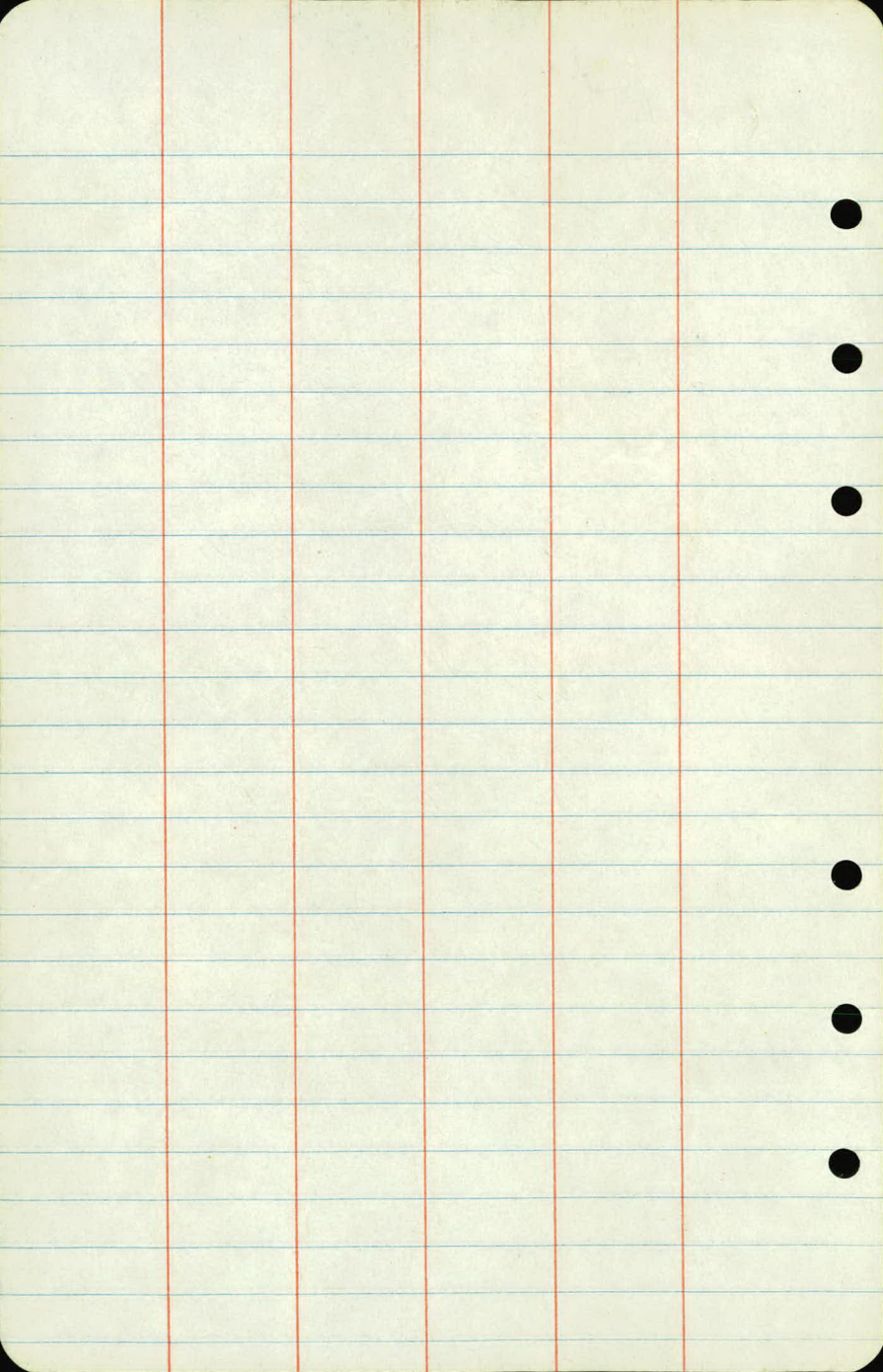
10.0

36.5
10.5
33 10.0

36.9
96
33

9.6

36.9
96
33



9-10-51

H.A.W.

L.C.

A.M.

M.B.

Profile Levels

Nancy Place

Lovell to B. 2

Rec'd 9-10-51

Drawn up
9-12-51

Sta	+	π	-	Elev
B.M	5.00	943.12		938.12
	333	941.35	5.10	938.02

0+00

+18 Gravel Line

+30 N Prop Line

+50

✓

+14 So End 12" x 20 C.H.R.

+34

+50

LT ~~R~~ RT

Top Mon Vict & B. 2

36.2	36.3	36.1
52	51	47
50		50

35.9	36.2	36.3
5.5	5.2	5.3
50		50

36.8	36.8	35.8	36.4	35.8	36.8	37.1
41	41	56	50	56	45	43
60	30	22		20	30	60

38.2	37.2	36.5	37.3	38.2
32	42	47	41	32
60	30		30	60

38.4	36.8	35.4	36.4	35.3	36.9	38.3
30	46	60	50	61	45	31
60	30	21		21	30	60

35.1
6.30
21

35.0
6.45
21

38.1	36.4	36.3	36.0	38.1
30	30	5.1	5.4	33
60	50		30	60

Sta L K - Elev

944.35

1+64

Side Pt RT 12" x 20' CM

1+84

2

+43

12" x 20' CM Side Pt

+50

+63

3

West Prop

+29

Profile Grandview

T.P.

5.33

940.41

6.27

935.09

Lt

2

Rt

349

651
21

308

664
21

378
36
60

372
42
30

352
62
22

361
53

350
64
23

364
50
30

384
30
60

664
21

330
24
60

368
46
30

354
56

364
50
30

381
33
60

678

362
52
60

366
58
30

387
67
21

355
59

351
63
24

362
52
30

396
68
60

352
62
22

388
66
22

352
62
22

356
58
25

303
51
150

374
40
260

Sta + Δ - Elev

940.41

3 + 50

4

+ 50

5

+ 50

6

+ 30

+ 55

B.M

Approx to B²

2.30 938.11 938.17

Lt

~~Lt~~

Rt

Grade in
390 yards

25.7

25.0

24.9

25.2

47

51

5.5

5.2

60

30

30

1.4

60

25.5

25.5

24.4

24.2

23.2

23.9

27.3

39

69

74

62

7.2

65

41

60

30

26

21

30

60

20.3

22.9

23.5

23.7

27.5

41

25

69

67

3.1

60

30

30

60

21.0

20.3

20.2

22.9

21.8

22.8

26.5

94

101

10.2

75

86

76

39

60

30

25

25

30

60

21.5

21.8

22.5

22.6

21.1

22.9

26.6

89

91

109

78

73

75

38

60

30

25

21

30

60

21.5

21.6

22.9

23.1

21.0

22.4

26.0

89

88

115

73

94

80

44

60

30

25

21

30

60

25.9

26.9

28.5

23.8

22.2

22.7

24.9

142

13.5

11.9

66

82

7.7

5.5

100

60

30

21

30

60

20.7

21.9

24.0

26.2

27.5

9.7

85

44

42

29

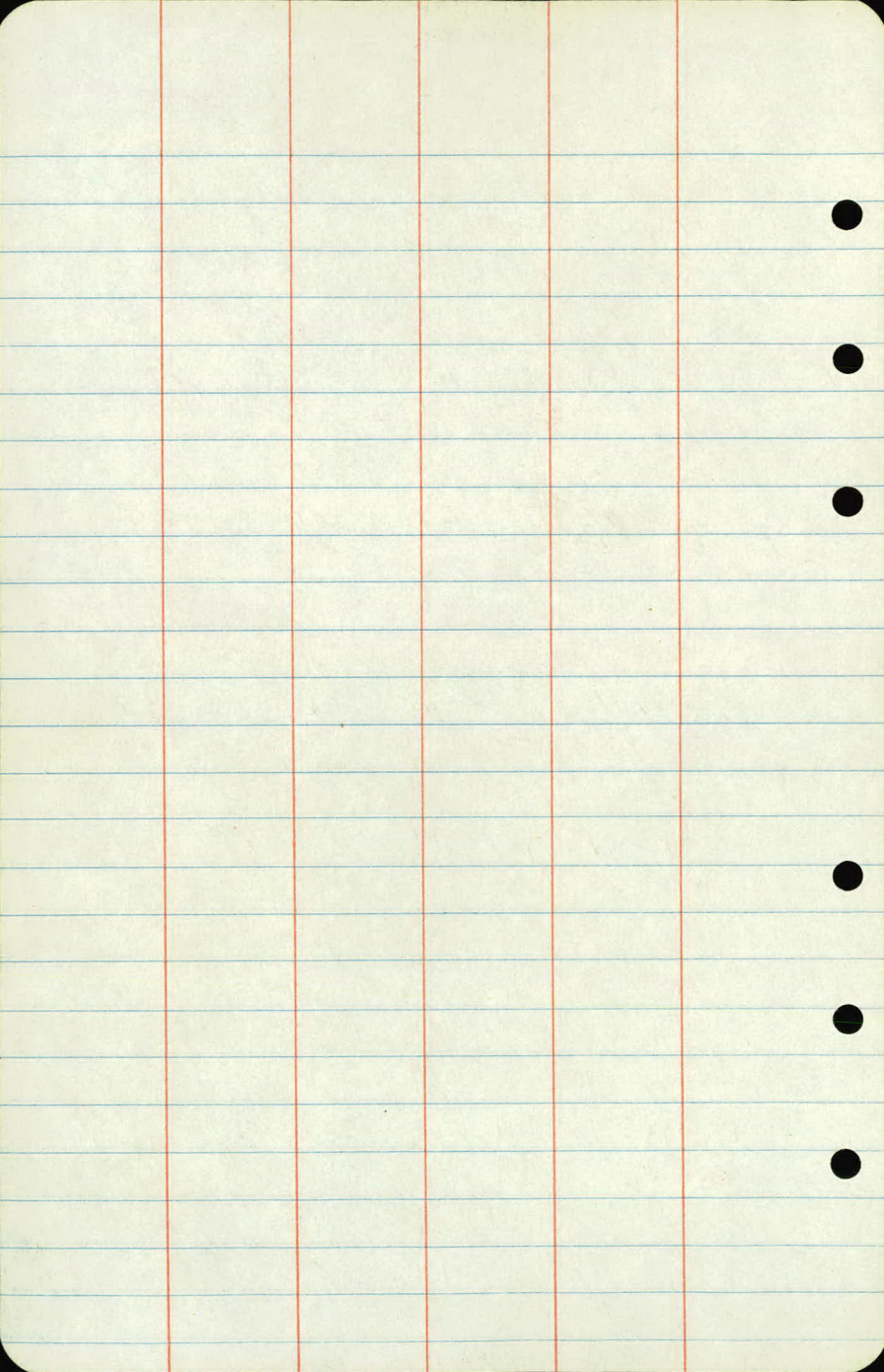
100

50

50

100

Top Mon Bⁿ + Vicl



Roma Ave

Profile Grades
Fernwood To Dunlap

Rec.

5/25/51

drawn up —

Sta	+	Σ	-	Elev
B.M	0.21	932.39		932.18
	12.80	934.72	10.47	921.92
	13.09	947.63	0.18	934.54
	8.44	955.31	0.76	946.87
	2.19	950.45	7.05	948.26

0+00 Σ Fernwood 40.7
Produced East to West

+33 41.7

+54

+79 42.1

T.P 742 955.68 2.19 948.26
1+00 48.1

+14

+45

60 30 X 30 60

Top Hyd S.E. Cor Dunlap & Lamp

$\frac{9.8}{60}$ $\frac{98}{30}$ 9.8 $\frac{9.8}{30}$ $\frac{9.8}{60}$

$\frac{25}{70}$ $\frac{33}{40}$ $\frac{40}{24}$ $\frac{87}{20}$ 8.8 $\frac{45}{30}$ $\frac{5.5}{60}$

N.W. Cor $\frac{26}{58}$

$\frac{2.1}{60}$ $\frac{21}{30}$ 34 $\frac{31}{30}$ $\frac{2.3}{57}$ N.E. Cor

$\frac{6.7}{60}$ $\frac{67}{30}$ 7.6 $\frac{4.6}{30}$ $\frac{84}{60}$

S.W. Cor 50.6
Ho 5.10

S.E. 50.8
Cor Ho 4.90

5/4 + π - Elev
955.18

1 + 50

49.8

+62

Driveway Lt
* West strip

2

50.8

+18

+32

* West strip

+50

51.2

3

50.6

+58

49.5

Lt 60 30 2 30 60 Rt

$$\frac{48}{60} \quad \frac{50}{30} \quad 59 \quad \frac{56}{30} \quad \frac{64}{60}$$

Conc slab $\frac{495}{355} = 50.7$

SW-Cor $\frac{40}{60} = 51.7$
 Hd

$$\frac{40}{60} \quad \frac{42}{30} \quad 49 \quad \frac{42}{30} \quad \frac{47}{60}$$

SE-Cor $\frac{390}{60} = 51.8$
 Hd

$$\frac{394}{35.5} = 51.8$$

$$\frac{37}{60} \quad \frac{42}{30} \quad 45 \quad \frac{39}{30} \quad \frac{45}{60}$$

$$\frac{42}{60} \quad \frac{34}{30} \quad 5.1 \quad \frac{44}{30} \quad \frac{47}{60}$$

$$\frac{5.7}{60} \quad \frac{5.1}{30} \quad 4.2 \quad \frac{5.3}{30} \quad \frac{5.3}{60}$$

Sta	+	π	-	Elev
		955.68		

4				47.6
---	--	--	--	------

+08	π	Floor Gap		
-----	-------	-----------	--	--

+39		Driveway Strip Lt		
-----	--	-------------------	--	--

+50				46.3
-----	--	--	--	------

+72		West Prop Line	^{46.0} Dunlap	
-----	--	----------------	---------------------------	--

5+05	π	Dunlap		46.8
------	-------	--------	--	------

B.M		9.35		946.33
-----	--	------	--	--------

LT RT
 60 30 2 30-60

$\frac{8.1}{30}$ $\frac{8.3}{30}$ 81 $\frac{66}{30}$ $\frac{64}{60}$

486
 $\frac{705}{\text{conc } 69}$

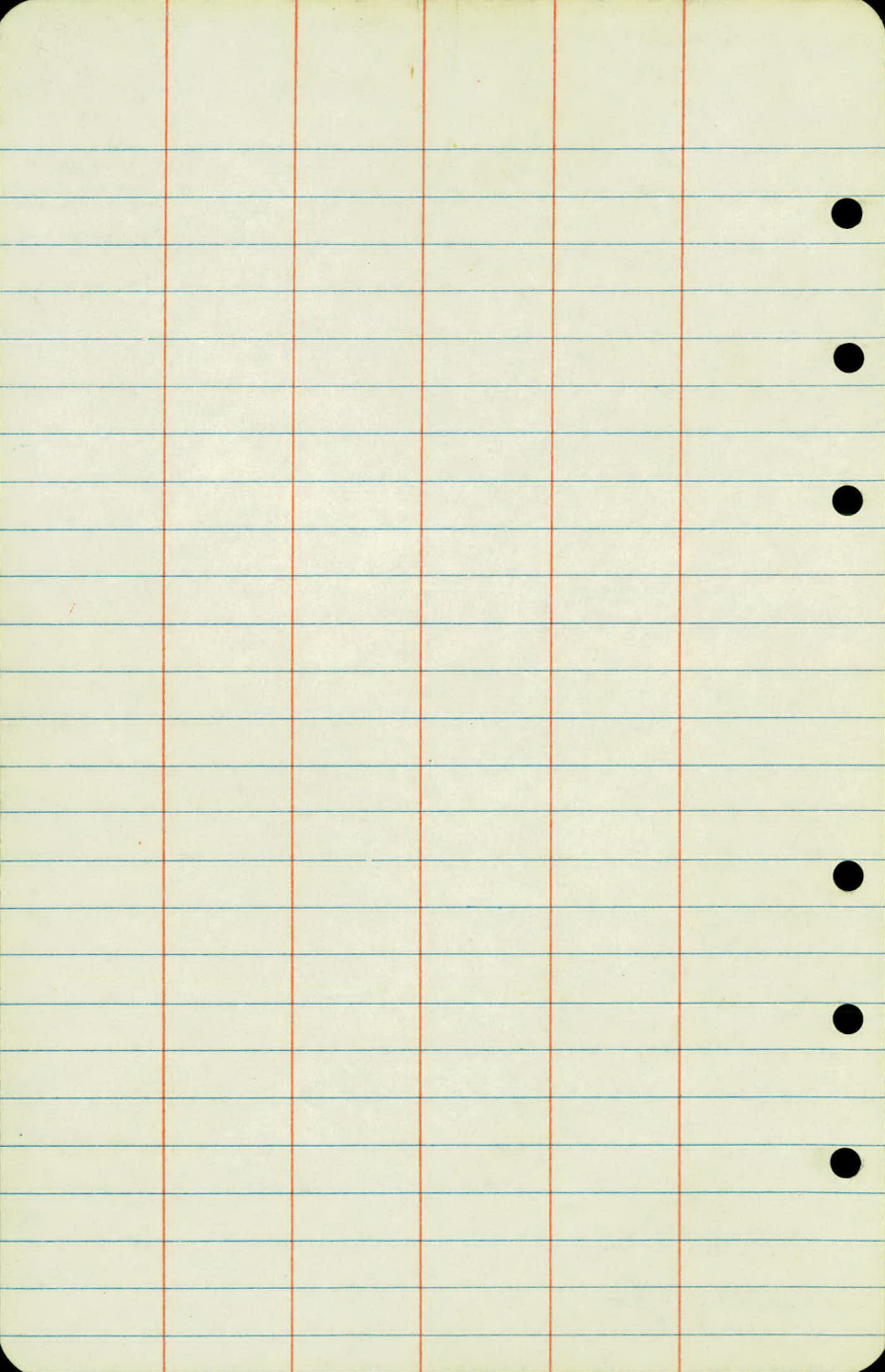
47.7
 Conc $\frac{803}{31}$

$\frac{74}{40}$ $\frac{76}{60}$ $\frac{84}{30}$ 94 $\frac{8.1}{30}$ $\frac{8.0}{60}$

$\frac{84}{60}$ $\frac{86}{30}$ 97 $\frac{8.7}{30}$ $\frac{85}{60}$

$\frac{7.8}{100}$ $\frac{85}{50}$ 89 $\frac{99}{50}$ $\frac{10.6}{100}$

Top N.W. Cor Btm step Ho 1768 Dunlap St



1
BISMARCK AVE

330' West from Western Ave

Profile

Bismarck Ave.

4 Pages

Drawn up

Sta	+	Σ	-	Elev
B.M.	1.20	972.69		971.49
	12.00	984.55	0.14	972.55
B.M.			2.11	982.44 982.70
" "			2.62	981.93 "
T.P.	13.80	998.09	0.26	984.29
	6.03	1003.45	0.67	997.42
B.M.			8.00	995.45 Est 995.42

0+00 E Western 94.8

+15 94.6

+20 93.7

+30 Iron OA Left

+60 95.9

1 98.0

+25

663
+ 320
4 5 280

45280
600
+300
lot with iron
B2

6/1/13

3. check
Stone est. at
90.00

E Bismark Ave.
Irons 910 11 1/2

9/10/31

2411616

E. Minicote

Mesters

 $\beta^{(1)}$

13 May 1952

Kridera
Moester
Clark
Benson

4

2

BM Top E. End of Deer Sill Front of House at NW Cor
Western & STH #36

BM Top SW Cor. B.H. step at Ho. SE Cor Minnesota
Ave & Western Ave (2270 Western)

Spike in P.P. East yard 2347 Western Ave.

98.5	98.5	97.9	96.7		92.8	90.9	88.9	88.2
5.0	5.0	5.6	6.8	8.7	10.7	12.6	14.6	15.3
200	150	100	50		50	100	150	200

96.5	95.8		93.1		91.9
7.0	7.7	8.9	10.4		11.6
60	30		30		60

95.7	94.7		91.7		90.7
7.8	8.8	9.8	11.8		12.8
60	30		30		60

96.0	95.4		95.1		95.7
7.5	8.1	7.6	8.4		7.6
60	30		30		60

96.4	95.8		98.3		98.7
7.1	7.7	5.5	5.2		4.6
60	30		30		60

60.1
3.4
37
House

Sta	+	π	-	Elev
-----	---	-------	---	------

1003.45

1 + 50

00.4

2

99.0

+ 27 iron 5.2 Left

+ 50

01.9

T P 4.88 1005.82 2.51 1000.94

3

01.2

+ 26.2 iron 2.8' Left

+ 50

97.9

+ 80 Beg fence 5' Rt

4 Fence 4' Rt

92.0

T P 1.03 994.98 11.87 993.95

+ 50 Fence 8.0 Left

86.9

5

82.8

2

3

98.7	98.7		00.2	99.6
48 60	48 30	3.1	33 30	39 60
00.2	99.4		99.9	00.0
3.3 60	4.1 30	4.5	36 30	3.5 60
01.3	01.9		01.7	01.8
2.2	1.6 30	1.6	1.8 30	1.7 60
02.5	02.4		00.5	00.0
2.3 60	2.4 30	4.6	5.3 30	5.8 60
97.6	98.4		97.9	96.6
8.2 60	7.4 30	7.9	7.9 30	9.2 60
92.5	92.3		91.0	90.0
13.3 60	13.5 30	13.8	14.8 30	15.8 60
87.0	87.7		85.3	85.2
8.0 60	7.3 30	8.1	9.7 30	9.8 60
81.8	83.6		82.2	83.6
13.2 60	11.4 30	12.2	12.8 30	11.4 60

994.98

5+50

79.3

10.93 1005.63 0.28 994.70

Est 995.42

BM

10.20 995.43 995.45

BM

7.19 1002.64

TP

0.25 990.46 12.43 990.21

BM

7.97 982.49

TP

0.40 977.65 13.21 977.25

TP

3.33 972.25 8.73 968.92

BM

0.70 971.55 971.49

2

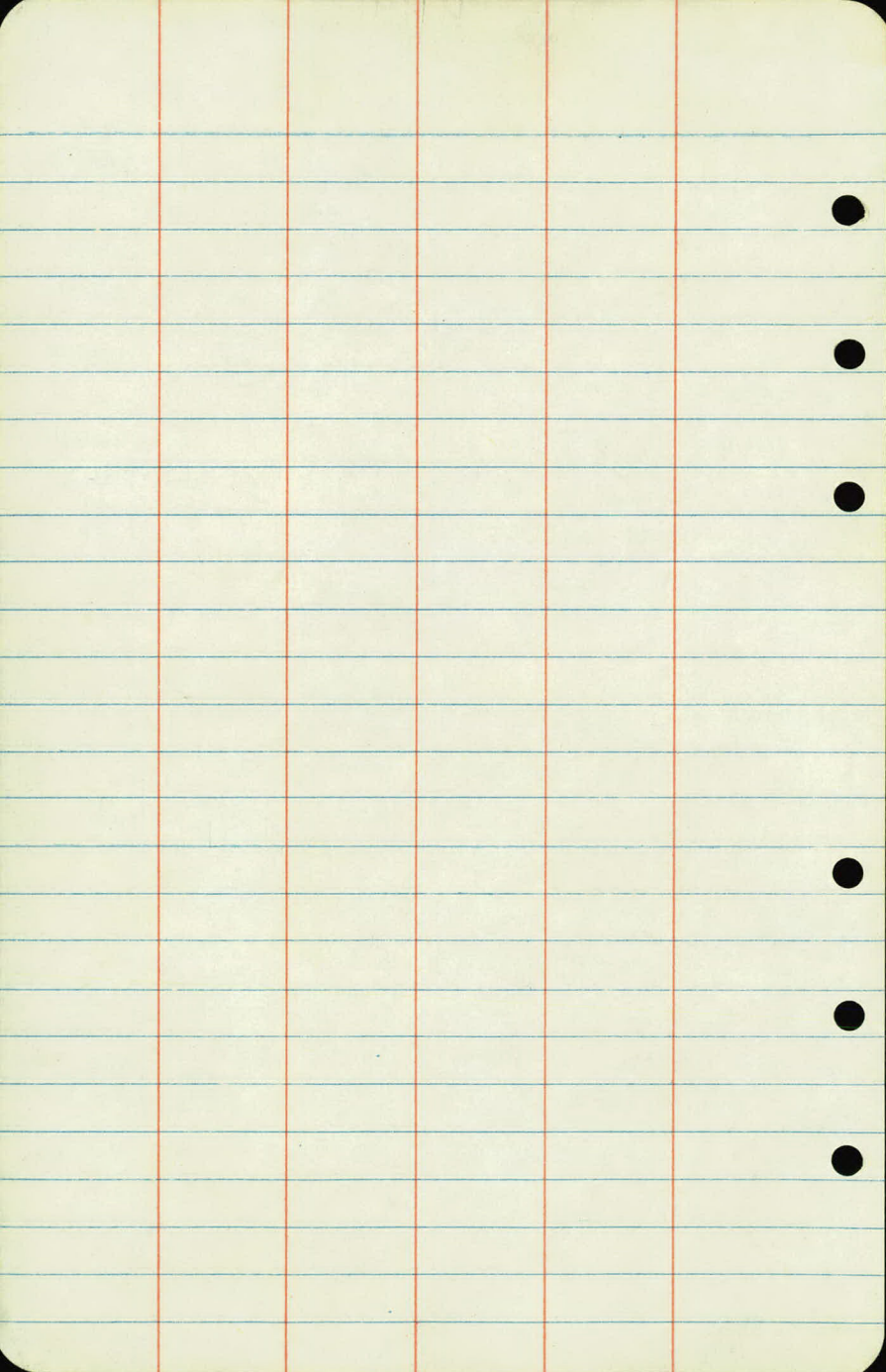
A

80.9	80.4		79.2	81.1
14.1	14.6	15.7	15.8	13.9
60	30		30	60

Spike in RR East yard 2347 Western Ave.

" " "

BM 2270 Western



Lebens

Roma to Dionne

Profile Levels

3 Pages

Rec 4/9/52

Drawn up

Sta	+	π	-	Elev
0 - 100		945.42		40.7

0 - 50				40.6
--------	--	--	--	------

0 + 00				41.4
--------	--	--	--	------

+ 50				40.0
------	--	--	--	------

1				40.3
---	--	--	--	------

+ 50				40.5
------	--	--	--	------

2				41.0
---	--	--	--	------

TP	3.33	945.00	3.75	941.67
----	------	--------	------	--------

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

3				41.1
---	--	--	--	------

8 May 1952
Kvidera
Moeschter
Benson

2

Hl. from p. 4 Picard St

1

4.7

4.8

42.6	42.3		38.8
2.8 60	3.1 33	4.0	6.6 60
42.1	41.5		38.0
3.3 60	3.2 33	5.4	7.4 60
41.9	41.1		39.9
3.5 60	4.2 33	5.1	5.5 60
42.1	41.5		38.3
3.2 60	3.9 33	4.9	7.1 60
42.1	41.7		39.5
3.3 60	3.7 33	4.4	5.9 60
41.5	41.4		39.9
3.5 60	3.6 33	3.7	5.1 60
41.2	41.7		39.9
3.8 60	3.3 33	3.9	5.1 60

Sta	+	π	-	Elev
		945.06		
3 + 50				40.4
4 + 10	£ Roma			39.2
+ 50				38.6
5				38.2
50				38.2
6				38.2
TP ₁	3.97	942.59	6.38	938.62
BM	9.83	945.32	9.10	935.49 Est. 935.50
BM			1.30	944.02 944.03
TP ₁	4.93	943.55		938.62
4 + 10	£ Roma			

20.2	20.3	29.2
4.8	4.7	5.6
60	33	60

21.5	21.8	29.1
2.5	7.2	5.0
60	33	60

6.4

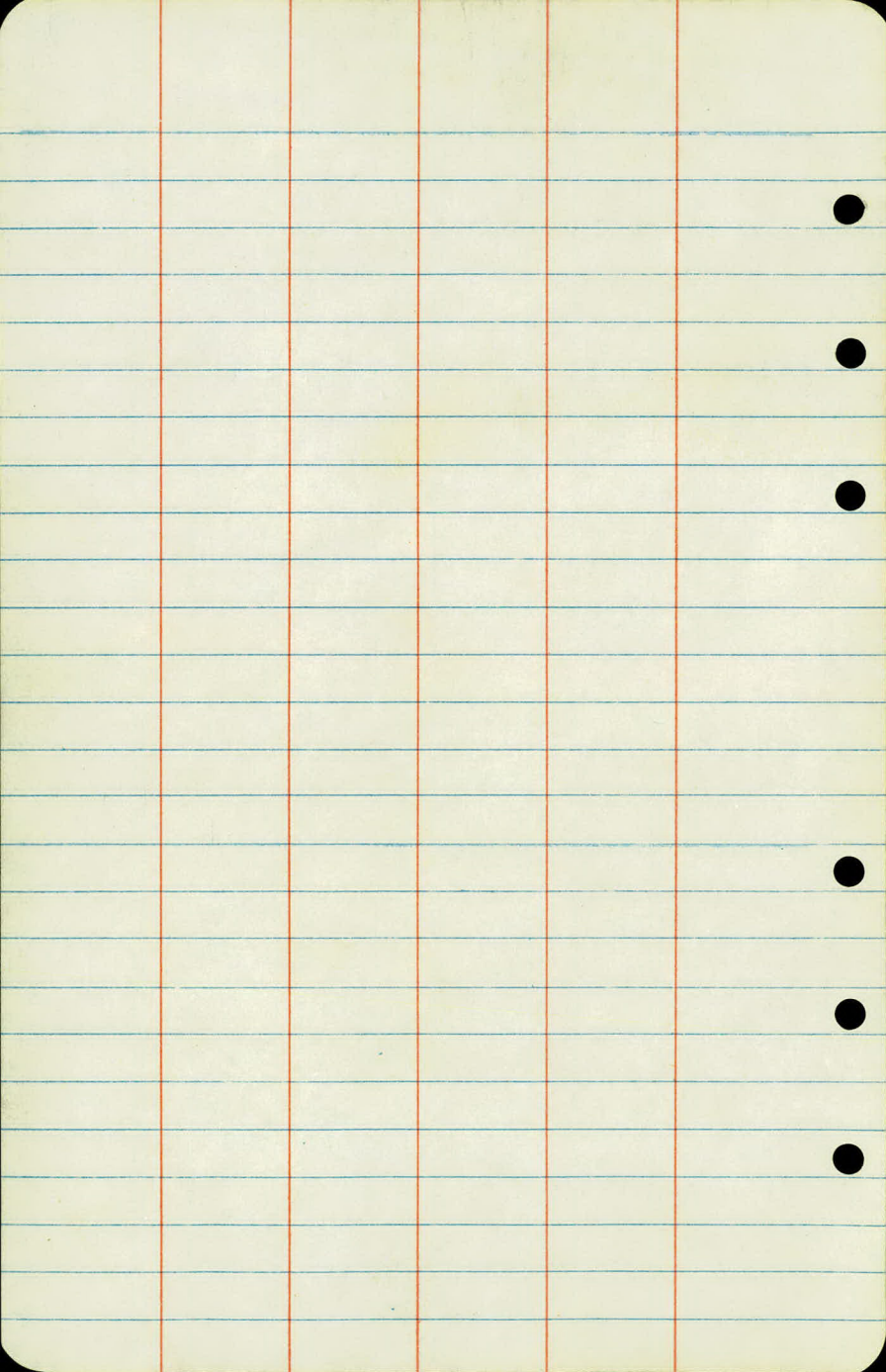
6.8

6.8

6.8

Southernmost Pt. 3 pump foundation Falcon oil Co
 B M Hyd. S.E. Lexington + Larpenteur

21.6	21.6	21.6	21.6	29.2	29.2	29.2
6.0	6.0	6.0	6.0	4.1	4.3	4.2
250	200	150	100	100	150	200



Dionne St

Lexington to Lebens

Profile Levels

4-Pages

Rec. 5/9/52

Drawn up

Sta.	+	Δ	-	Elev.
BM	1.35	945.38		944.03
			4.0	941.38 941.36
BM	4.34	939.84	9.89	935.49 Est. 935.50
0+0.0	£ Lexington			34.26

+ 50				33.1
------	--	--	--	------

1				33.2
---	--	--	--	------

+ 50				32.8
------	--	--	--	------

2				33.2
---	--	--	--	------

+ 50				33.1
------	--	--	--	------

3				33.0
---	--	--	--	------

+ 50				32.7
------	--	--	--	------

28 May 1952

Kridera
Moeschter
Benson

BM Hyd S.E. Lexington + Larperneur

iron Intersection Lexington + Larperneur

Southernmost Pt of 3 pump foundation Falcon oil Co.

35.00	34.77	34.62	34.49	34.11	34.26	34.69	35.44
478	5.07	5.22	5.35	5.58	5.73	5.58	4.40
200	150	100	50	50	100	150	200

30.1

30.4

34.3

27
100

9.4
60

6.7

5.5
60

30.2

30.5

35.0

9.6
100

9.9
60

6.6

4.80
60

Filling station Apron

29.9

30.7

34.3

9.9
100

9.1
60

7.0

5.5
60

30.2

30.2

33.9

9.6
100

9.6
60

6.6

5.9
60

30.3

30.1

33.99

9.5
100

9.7
60

6.7

5.85
60

concrete walk

30.3

30.7

33.92

9.5
100

9.1
60

6.8

5.92
60

concrete walk

31.3

31.8

33.6

8.5
100

8.0
60

7.1

6.0
60

Sta	+	π	-	Elev
4		9.39.84		33.4
T.P	11.34	945.42	5.76	934.08

+ 50

33.8

5

33.6

+ 50

33.8

6

34.6

+ 50

36.4

7

38.6

+ 50

40.4

8

42.0

2

31.9
7.7
60

6.4

35.0
7.8
60

32.2

13.2
60

11.6

35.7
9.7
60

32.7

12.7
60

11.8

35.4
10.0
60

33.1

12.3
60

11.6

35.1
10.3
60

34.

10.8
60

10.8

35.1
10.3
60

36.7

8.7
60

9.0

36.2
9.2
60

39.2

6.2
60

6.8

38.2
7.2
60

41.1

4.3
60

5.0

39.6
5.8
60

42.3

3.1
60

3.4

41.0
4.4
60

Sta	+	X	-	Elev
		945.42		
B + 50				42.8
9				42.7
TBM		3.52		941.90
+ 50				42.2

+ 79. 4 Lebens (W. line Rosecrest Villas)
 BM 2.87 938.37 935.50
942.37 939.50

0 + 17 33.6

0 + 27 33.4

TBM 461 946.50 941.90

10 + 50 38.3

11 37.8

+ 50 38.1

12 40.3

E

42.7

41.8

2.7
60

2.6

3.6
60

42.4

41.7

3.0

2.7

3.7
60

TBM Iron NW Property Line 9+46

41.4

41.4

4.0
60

3.2

4.0
60

40.1

40.6

40.7

5.3
60

4.0

4.8
604.7
100

BM Southernmost Pt of 2 pump

34.0

33.7

33.6

4.4
604.7
60

4.8

4.8
60

31.6

32.6

31.5

6.8
605.8
30

5.0

5.9
60

29.01

24"
930 Con. Cul.
92 East End
X 2 ex

TBM

Iron NW Property Line 9+46

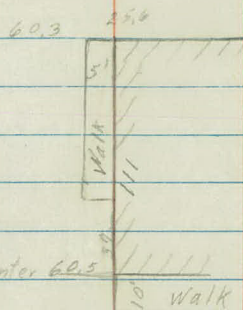
8.2

8.7

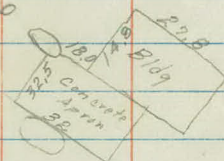
8.4

6.2

1/2



- 1+93 NW cor Shopping center 60.3
- 1+36 Light pole 48'
- 1+32 Pump 66.5 + 61
- 1+26 cor slab & Pump (66 slab
- 1+02 cor slab 50'
- 1+00 } Pump 51.5
- 0+92 } 60
- 0+78 slab cor, 76



- 0+68 } Pump 87'
- 0+59 } 95'

- 0+57 Pump 48' 61' 8.5'

1
Mildred Drive

C^R to Lydia Ave.

Profile Levels

Rec'd

5/12/52

5 pages
Additions 68'

Drawn up

Mildred - Co. Rd. "C" to Lydia

Sta	+	π	-	Elev
BM	0.86	927.26		926.40
TBM	5.39	920.00	12.65	914.61

0+00 2 Co. Rd. "C"

15.7

0+00 to 0+50

4 trees on Right of way

+ 17

14.9

+ 26

11.9

+ 50

10.0

1+00 - 4+50

Numerous trees

1

9.9

+ 50

11.3

TP 7.43 918.02 9.41 910.59

2

12.5

Water Surface 9 May 1952 9.14 908.88

+ 50

12.4

9 May 1952
Kridera
Moeschter
Clark Benson

①

2

Top Mont at Co. Rd. "C²" + Fairview

● Top of West end of driveway culvert 1850 Co. Rd "C²"

13.1	13.8	14.3	15.0	16.5	17.5	19.4
6.9	6.2	5.7	5.0	4.3	3.5	2.5
200	150	100	50	50	100	150

14.2	14.5	15.4	16.4
5.8	5.5	5.1	4.6
60	30	30	60

14.2	14.7	15.7	16.6
7.8	7.8	8.1	7.3
60	30	30	60

10.3	10.4	10.4	10.8
9.7	9.6	10.0	10.6
60	30	30	33

Marsh ↑ Marsh

10.5	10.2	10.9	10.0
11.5	10.8	10.1	10.1
60	50	30	30

Marsh ↑

10.7	10.1	13.6	14.6
11.3	10.9	8.7	6.4
60	30	30	30

Marsh ↑

10.8	10.3	16.0	17.5
9.2	8.7	5.5	2.0
60	40	30	30

Marsh

10.6	10.3	16.7	18.3
9.4	8.7	5.6	1.3
60	35	30	30

Marsh ↑

Sta	+	π	-	Elev.
-----	---	-------	---	-------

918.02

T P	8.61	921.79	4.84	913.18
-----	------	--------	------	--------

3+00				14.5
------	--	--	--	------

3+03 PI

+50				12.8
-----	--	--	--	------

4				12.2
---	--	--	--	------

+50				15.1
-----	--	--	--	------

T P	6.11	921.45	6.45	915.34
-----	------	--------	------	--------

5				14.3
---	--	--	--	------

5+28 PI

Water Surface			13.50	
---------------	--	--	-------	--

+50				12.7
-----	--	--	--	------

BM	4.66	921.62	4.49	916.96
----	------	--------	------	--------

6				13.5
---	--	--	--	------

5+00 - 8+50

scattered trees

+48	£			and stumps
-----	---	--	--	------------

15.3

12 May 1952
Full Crew

4

3

8.2	10.6	17.2	18.2
12.6	11.2	7.3	4.6
60	30	30	60

8.2	10.3	15.1	19.3
12.6	11.5	9.0	6.1
60	30	30	60

11.0	12.3	12.4	14.3
10.8	9.5	9.6	9.4
60	30	30	60

13.0	14.0	16.2	16.2
8.8	7.8	6.7	5.6
60	30	30	60

10.2	12.1	17.4	19.8
11.3	9.4	7.2	4.1
60	30	30	60

0.7	08.0	10.3	16.8	19.9
13.8	13.50	11.2	8.8	4.7
60	58	30	30	60

Rock 6+24 8'51"

06.1	11.4	17.8	20.8
12.7	10.5	8.1	3.8
57	30	30	60

Water

08.7	12.3	18.3	20.2
Water	13.4	9.3	6.3
64	60	30	30
			1.4
			60

Sta + π - Elev

921.62

7 14.2

+ 50

13.2

8 11.8

+ 50

11.0

T P 6.56 917.48 10.70 910.92

9 11.0

+ 50

11.2

10 9.56

11.5

+ 50

11.7

2

4

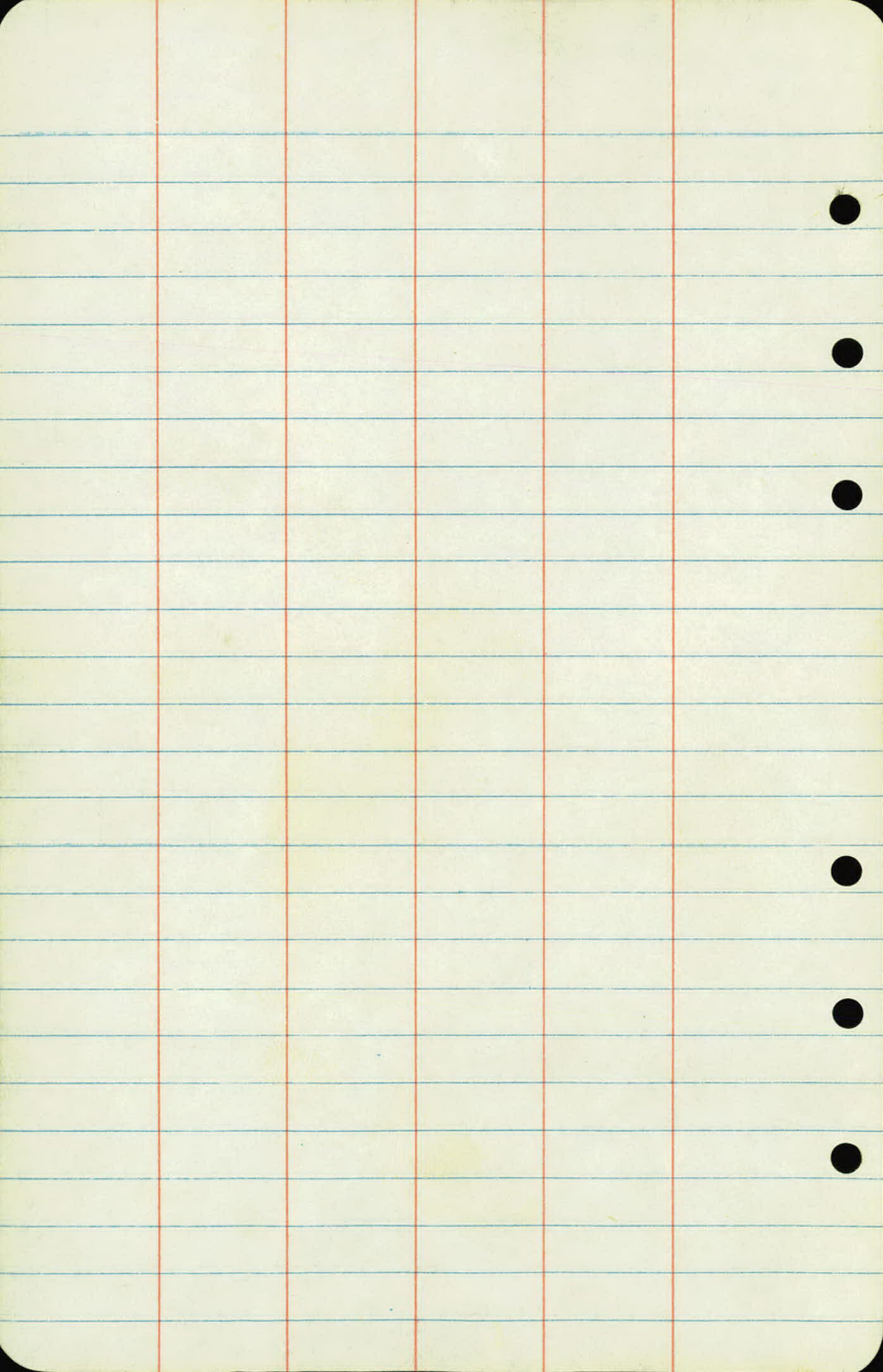
	09.1	12.0		18.0	20.9
	11.9 60	9.6	2.4	3.6 30	0.8 67 House
	09.0	11.2		16.7	18.8
Water 86	12.6 60	10.4 30	8.4	4.9 30	2.8 60
	09.1	09.0	09.4	15.2	17.7
	12.5 66 House	12.6 60	12.2 30	9.8	6.4 30
	09.4	10.1		12.9	18.6
	12.2 60	11.5 30	10.6	8.7 30	30 59 House
	08.9	09.8		11.9	13.4
Water 95	8.6 60	7.7 30	6.5	5.6 30	4.1 60
	09.4	10.1		11.7	12.7
Water 90	8.1 60	7.4 30	6.3	5.8 30	4.8 60
	08.0	11.0		12.4	12.4
Water 62	9.5 60	6.5 30	6.0	5.1 30	5.1 58 House
	08.0	10.4		12.7	10.1
Water 65	9.5 60	7.1 30	5.8	4.8 30	4.4 60

Sta	+	π	-	Elev
		917.48		
11				12.0
+40	garage		9.7	07.8
+50				12.7
12				14.3
+50				15.3
+80				
13				14.2
TP	4.20	918.47	3.21	914.27
+27	S. Property Lydia			13.0
+60				08.4
TP	5.92	923.63	0.76	917.71
BM			4.60	919.03 919.00

2

	07.9	09.7	13.9	14.2		
	9.6	7.8	55	36	3.9	
	41	30		30	59	
	Water				House	
	12.0	12.1	13.9	14.4		
	5.5	5.4	4.8	3.6	3.1	
	59	30		30	60	
	House					
	08.5	13.2	14.8	14.9		
	Water	9.0	4.3	3.2	2.7	2.6
	65	60	30		30	60
						House
	09.1	13.7	15.2	15.1	15.0	
	Water	8.4	3.8	2.2	2.3	2.4
	68	60	30	30	60	72
						garage
					15.1	
					2.4	
					60	
					House	
	07.9	12.1	14.6	15.0		
	9.6	5.4	3.3	2.9	2.5	
	60	30		30	60	
	Water					
	08.1	09.2	13.2	14.4		
	10.4	9.3	5.5	5.2	4.1	
	52	30		30	60	
	Water					
		08.0	11.8	12.7	13.1	12.5
						12.9
						14.0
		10.5	10.1	6.7	5.8	5.4
		9		30	60	100
		Water				150
						200
						250

Spike in 24" Cott 100'N & 35'E. Int Fairview & Lydia



Sta	+	π	-	Elev.
BM	3.64	922.64	.	919.00

13+37

Water Level 14.8
4 June 1952

13+47 Apparent ϕ Lydia

13+60

BM	3.64	919.00
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4 June 1952

Kridera
Moeschter
Clark
Motaughlin

4

7

Spike in 24" Cott 100' N 435' E lot Fairview & India

12.5

Water	13.7	12.2	10.1	9.2	9.1	9.2	9.1
	35	30	8	17	30	60	90

11.0

Water	13.1	11.6	10.1	9.5	9.2	9.5	9.4
	27	7	9	30	80	130	180

08.6

Water	14.0	12.7	11.4	10.3	9.3
	10	20	30	50	100

