

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

PLAN

Survey

FROST AVE CONN.

From E SHORE PR To FROST AVE

Road Acc't. No. 62

Date Filed 1-21-82

pe. 12
bk. 41
File

INDEX

Frast Ave Conn
& Adele St

F.A. Conn.

1-9 Alignment (use new Alignment)

10-28 Topo

29-30 Levels

31-48 Xsect

MANHOLES

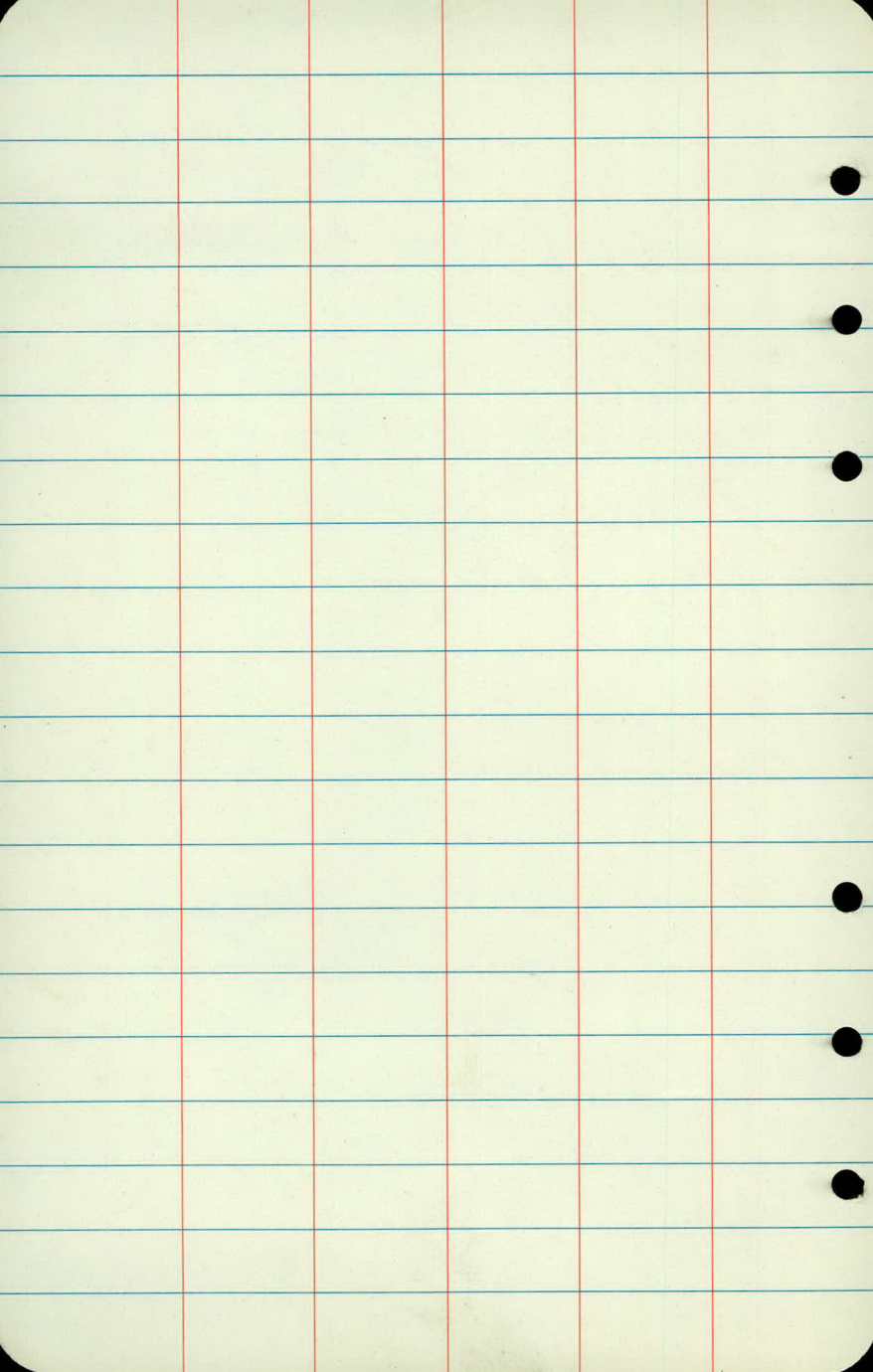
Adele St

Alignment

Topo

Levels

Xsect



FK
KP
LPD

March 5, 1973
Overcast 35°

1

FROST AVENUE CONNECTION

New Alinement

Sta Point ΔL ΔR

$$\frac{1}{2} \Delta = 6^{\circ} 30'$$

$$\Delta = 13^{\circ} 00'$$

$$D = 10^{\circ} \text{ Arc}$$

$$T = 65.28'$$

$$L = 130.00'$$

$$R = 572.96'$$

$$+72.62 \text{ PT } 6^{\circ} 30'$$

$$+50 \quad 5^{\circ} 22.0'$$

$$+07.90 \text{ PI } -$$

$$+00 \quad 2^{\circ} 52.0'$$

$$+50 \quad 0^{\circ} 22.0'$$

$$0+42.62 \text{ PC } 0^{\circ} 00.0'$$

0+00 $\pm$ East Shore Drive

LT

£

RT

2

Sta	Point	ΔL	ΔR
-----	-------	------------	------------

$$\frac{1}{2} \Delta = 7^{\circ} 37' 30''$$

$$\Delta = 15^{\circ} 15'$$

$$D = 10^{\circ} \text{ Arc}$$

$$T = 76.70'$$

+65.31	PT	7°37.5'	
--------	----	---------	--

$$L = 152.50$$

+50		6°51.5'	
-----	--	---------	--

$$R = 572.96$$

3+00		4°21.5'	
------	--	---------	--

+89.51	PI	 	
--------	----	-------------------	--

+50		1°51.5'	
-----	--	---------	--

2+12.81	PC	0°00.0'	
---------	----	---------	--

Sta Point ΔL ΔR

$$\frac{1}{2} \Delta = 22^{\circ} 30'$$

$$\Delta = 45^{\circ}$$

+02⁴⁰ PT

$$22^{\circ} 30'$$

$$D = 20^{\circ} \text{ Arc}$$

8+00

118.50

$$22^{\circ} 15.5'$$

$$T = 118.66'$$

+50

$$17^{\circ} 15.5'$$

$$L = 225.00'$$

7+00

$$12^{\circ} 15.5'$$

$$R = 286.48'$$

+96.06 PI

—

+50

$$7^{\circ} 15.5'$$

6

$$2^{\circ} 15.5'$$

5+77.40 PC

$$0^{\circ} 00'$$

$$8 + 69.48$$

$$\begin{array}{r} 285 \\ \hline 11 + 54.48 \end{array}$$

$$22.6$$

$$\begin{array}{r} 6 \\ \hline \end{array}$$

$$1356$$

$$22.6$$

$$\begin{array}{r} 6 \\ \hline \end{array}$$

$$195.6$$

$$5 + 77.40$$

$$2 + 25.00$$

$$8 + 02.40$$

$$8 + 02.40$$

$$67.08$$

$$8 + 69.48$$

$$1 + 49.06$$

$$\begin{array}{r} 10 + 18.54 \end{array}$$

Sta Point Δ Lt Δ Rt.

12+18.35

$\pm$ Frost Ave

66.3%

+51.98 P.T. $22^{\circ}36'$

+50 $22^{\circ}26.5$

11 $18^{\circ}26.5$

+50 $14^{\circ}26.5$

$\frac{1}{2}\Delta = 22^{\circ}36'$

+18.54 P.I. —

$\Delta = 45^{\circ}12'$

10 $10^{\circ}26.5$

$D = 16^{\circ}$ Arc

+50 $6^{\circ}26.5$

$T = 149.06$

9 $2^{\circ}26.5$

$L = 282.50$

8+69.48 PC $0^{\circ}00'$

$R = 358.10$

FK
KP
LPD

March 5, 1973
Overcast 37°

5

Center
Sec. 16

250'

68°
52'

145.07

1858

215

51.35

spike

spike

spike

145.07
68° 52'
70.7

75
73.82
148.82

6
Frank's ADELE St. $\frac{1}{4}$ Line
Alinement only

FROST AVE. CONN.

Sta	Point	ΔL	ΔR
-----	-------	------------	------------

10+44.78			
----------	--	--	--

7+00			
------	--	--	--

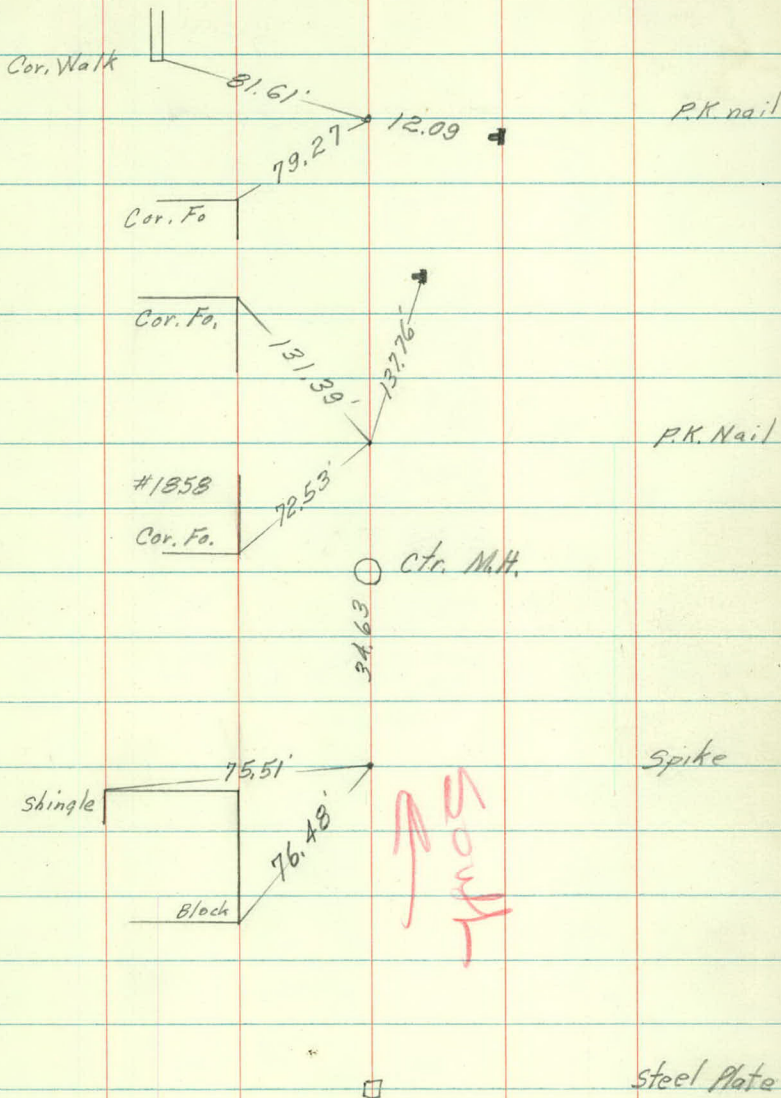
3+50.20			
---------	--	--	--

0+00	Center Section	16	
------	----------------	----	--

FK
LPD
HL

June 27, 1967
Line

72

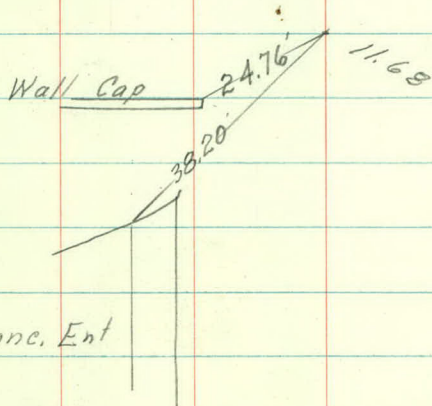
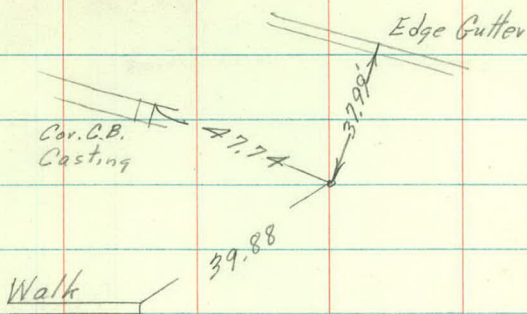


13+09.23 $\frac{1}{4}$ $\frac{1}{4}$ Corner

11+93.53

1/4 line

8-3



Iron in Can. 7

P.K. Nail in Tie

193.10

32.54'

P.K. Nail 33'
PP

66°43'

19°42'

24°39'

109 124

111° 04'

? Found Kelly Iron

SP, 40

58.83'

109°10'

19°22'
100.64

399.45' N 111°04'W
S 68°56'W

24°39'

114.7

9-4

ctr. sec.
16

T-29 N
R 22 W
4TH P.M.

NOON

193.53

1309.23

A hand-drawn sketch of a surveying site. The sketch includes a small triangle on the left with a side labeled '9.15' and an angle labeled '90'. A line segment is labeled '66.93' and '183.46'. Another line segment is labeled '26.11'. A vertical line segment is labeled '114.7' and '115.7'. A horizontal line segment is labeled '2.15'. A vertical line segment is labeled '285''. A rectangular area on the right is labeled 'Spike'.

N 86° 25' W

114.

115.7

~~4660 475.1~~
~~43. W~~

115.7
66043

P.K. Nail

179	60
111	04
68	56

$$\begin{array}{r} 66^{\circ} 43' \\ 19 \quad 42 \\ \hline 85 \quad 85 \\ 86^{\circ} 25' \\ 24 \quad 39 \\ \hline 110 \quad 64 \\ 111^{\circ} 04' \end{array}$$

2.6	11.00	11.00	11.00	11.00	11.00
7.00	11.00	11.00	11.00	11.00	11.00
1.00	11.00	11.00	11.00	11.00	11.00
9.00	11.00	11.00	11.00	11.00	11.00
8.00	11.00	11.00	11.00	11.00	11.00
4.00	11.00	11.00	11.00	11.00	11.00
4.00	11.00	11.00	11.00	11.00	11.00
4.00	11.00	11.00	11.00	11.00	11.00
0.00	11.00	11.00	11.00	11.00	11.00
7.00	11.00	11.00	11.00	11.00	11.00
BM	11.00	11.00	11.00	11.00	11.00
+6.0	11.00	11.00	11.00	11.00	11.00
	11.00	11.00	11.00	11.00	11.00

KP
DS
LPD
GA

26 MAR. 1973

10

FROST AVE.
CONN.

TOPOGRAPHY

2+00

LT

E

RT

+95 30" COTT
11+91 NW COR Ho
83+71 20"0
45+63 24" COTT
35+49 20"0
74+50 +43 18"0 +44 STP
76+37 10"0 +39 12"0 +44 18"0 +49 SW COR Ho
11 18 14 89+20 STP +13 STP +18 8"0
27 23+12 PP +26 15"0 +19 PP +35 RTHo.
72 56 70 78+04 STP
2312"0
24+12 16"0
43

1+00

+81 6" P +90 6" P +97 6" P
88 88 88+98 16"0 +98 2"0
32 46

+80 N.E. COR LIFT STA

+71 TW 6" Birch
89

+80 STP 48 +71 SE. COR LIFT STA

+63 MH +75 MH 47
75 76+66 TW 10" BF
11

+50

+29 6" Locust +29 PP +29 8" Loc
79 75+28 8" Locust 56 +31 8" Locust
66 86+16 PP
76+15 CB +14 RD
54 64

0+00

0-14 RD

0-15 CB
520-22 24" ELM
41

0-22 18" ELM

0-22 18" ELM
41

0-50

-55 pipe

26 MAR. 1973

11

16'
LIFT
STA. 11.5

E. SHORE DRIVE

40' X 18' CM
30' X 18' CM

+50

LT

E

RT

4+00

+00 CESS POOL
63

+50

3+00

+50

2+00

LT

£

RT

12

555

0

7+00

LT

£

RT

+50

6+00

+77 MH
75

+50

5+00

4+50

LT

E

RT

13

0

+50

LT

~~E~~

RT

9+00

+50

8+00

+50

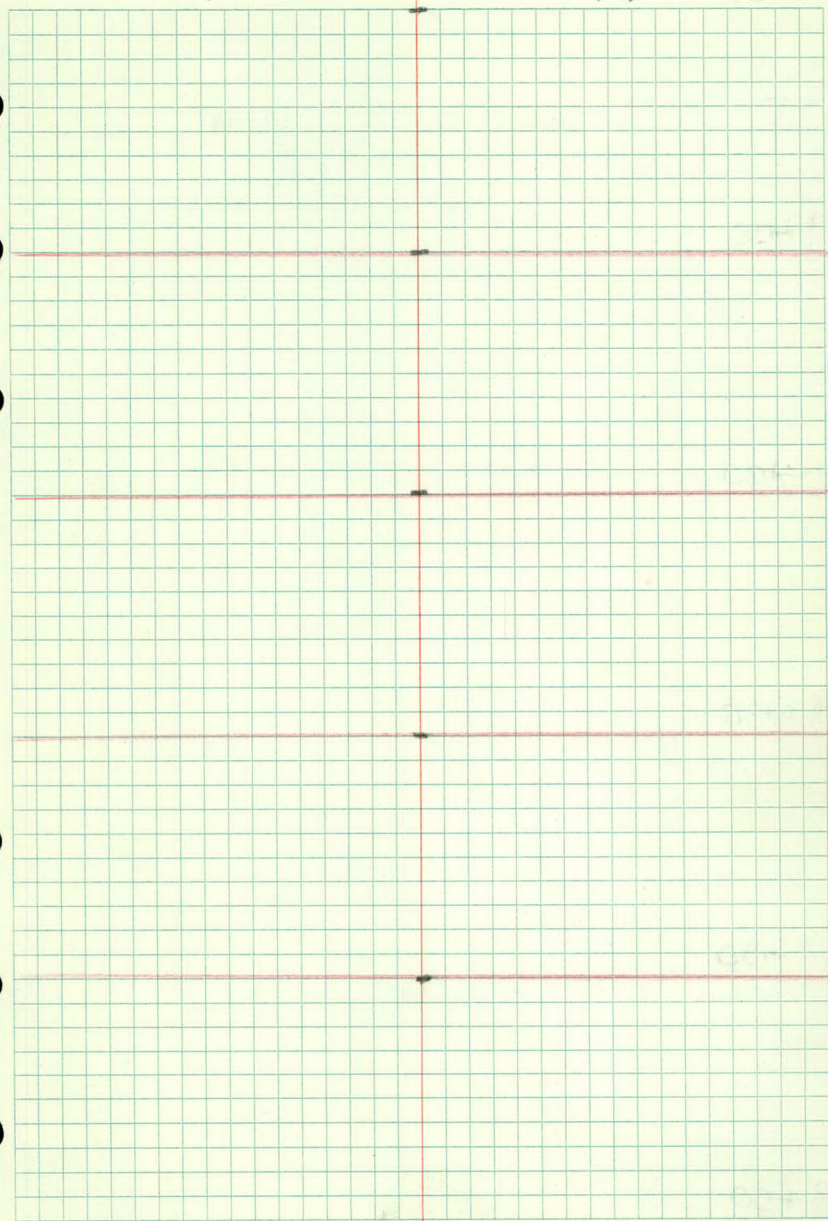
7+00

LT

£

RT

14



12+00

LT

~~E~~

RT

+50

11+00

+50

10+00

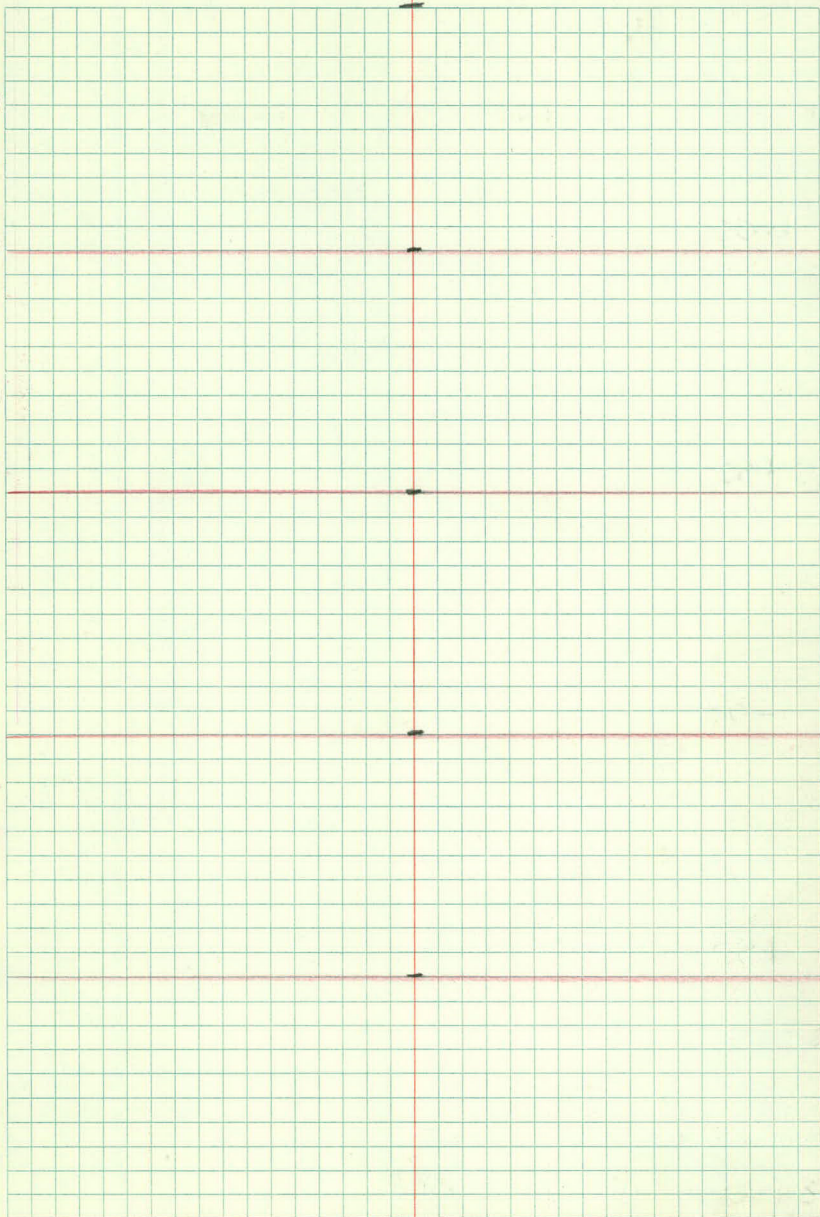
9+50

LT

~~Z~~

RT

15



+50

LT

~~E~~

RT

14+00

+50

13+00

+50

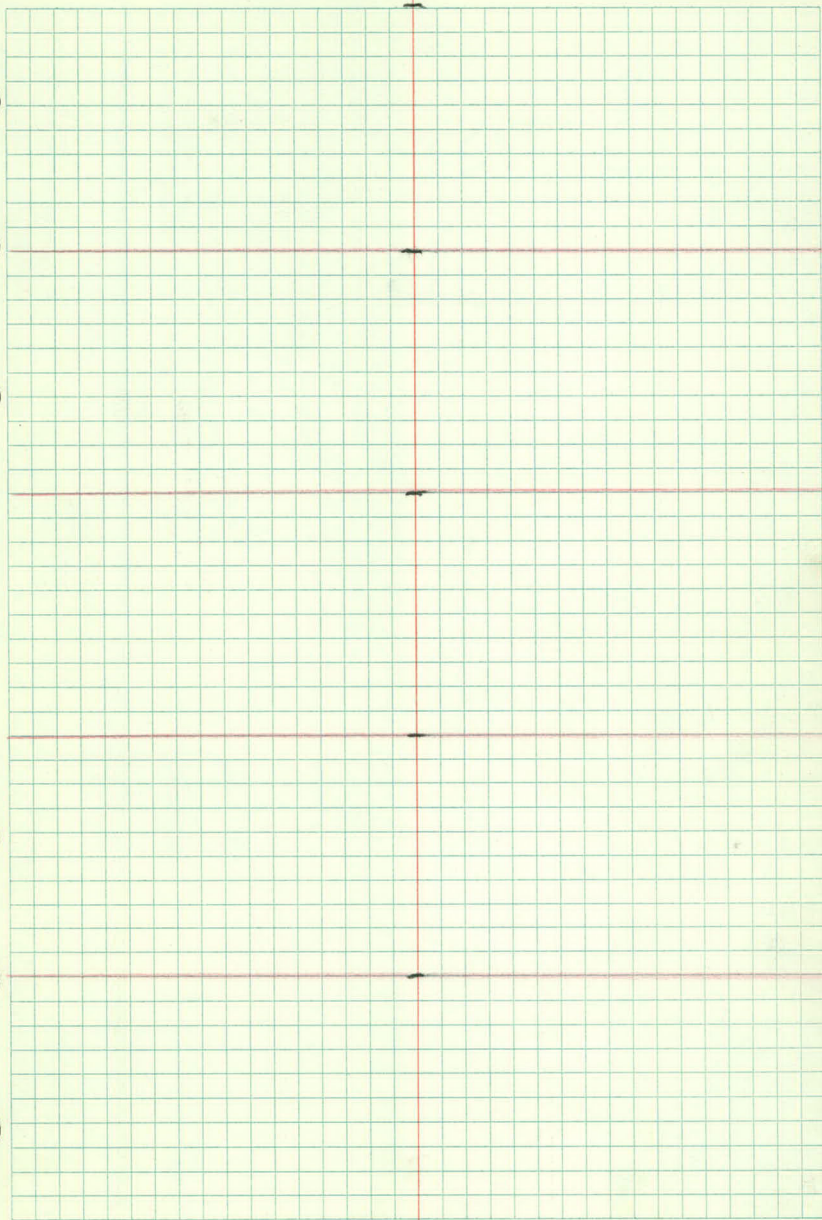
12+00

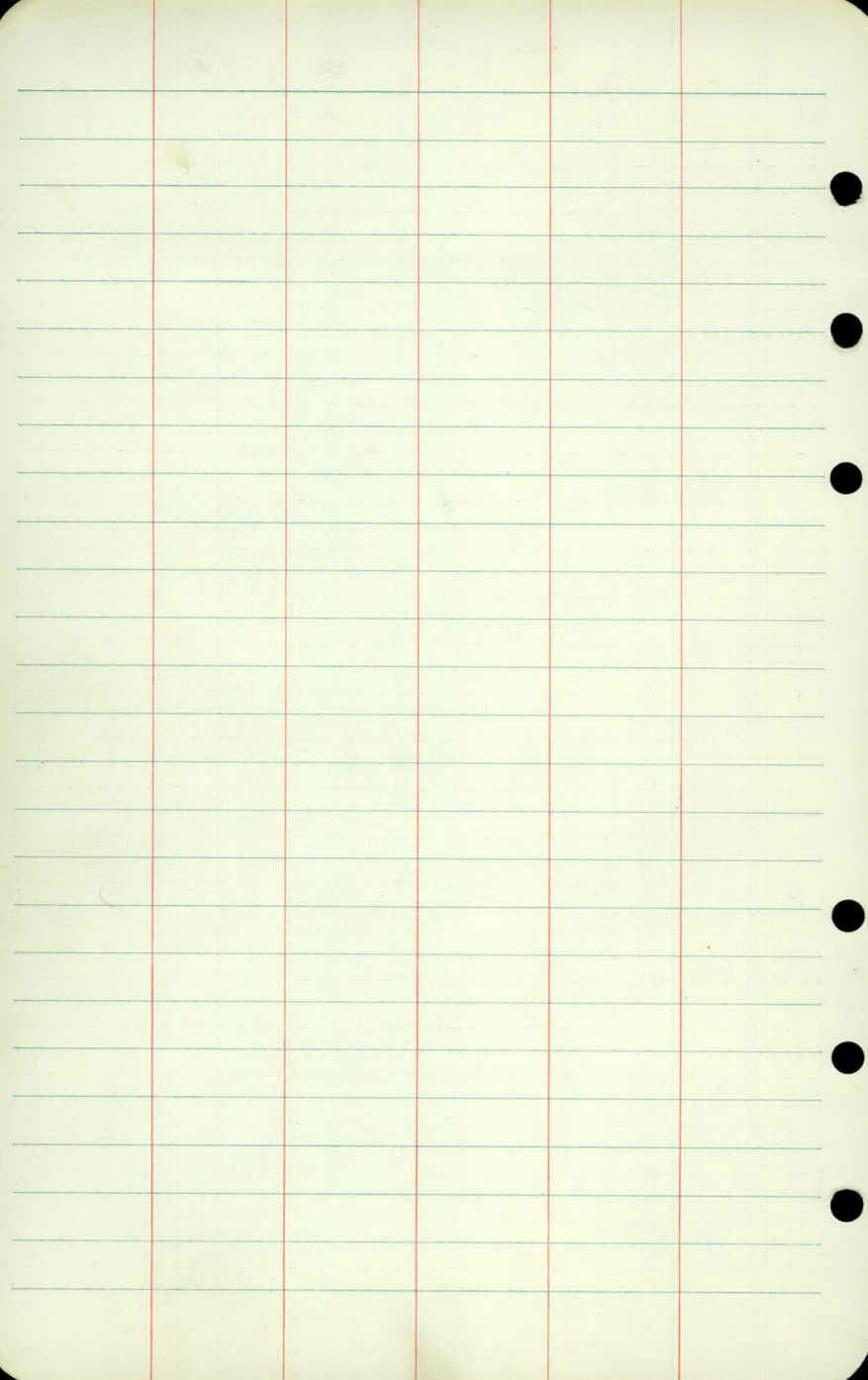
LT

~~E~~

RT

16





FK
WM
LPD
W.J.
H.L.

July 6, 1967 175

PARTIAL TOPOGRAPHY

2

+47.66 Survey Line 2

1

+47.66

0+00 N. Edge Gutter Lake Shore Drive

18 ~~6~~

House

+ Cabin

+ Shed

4

+ Trailer Ho

+ Trailer Ho

+ Trailer Ho

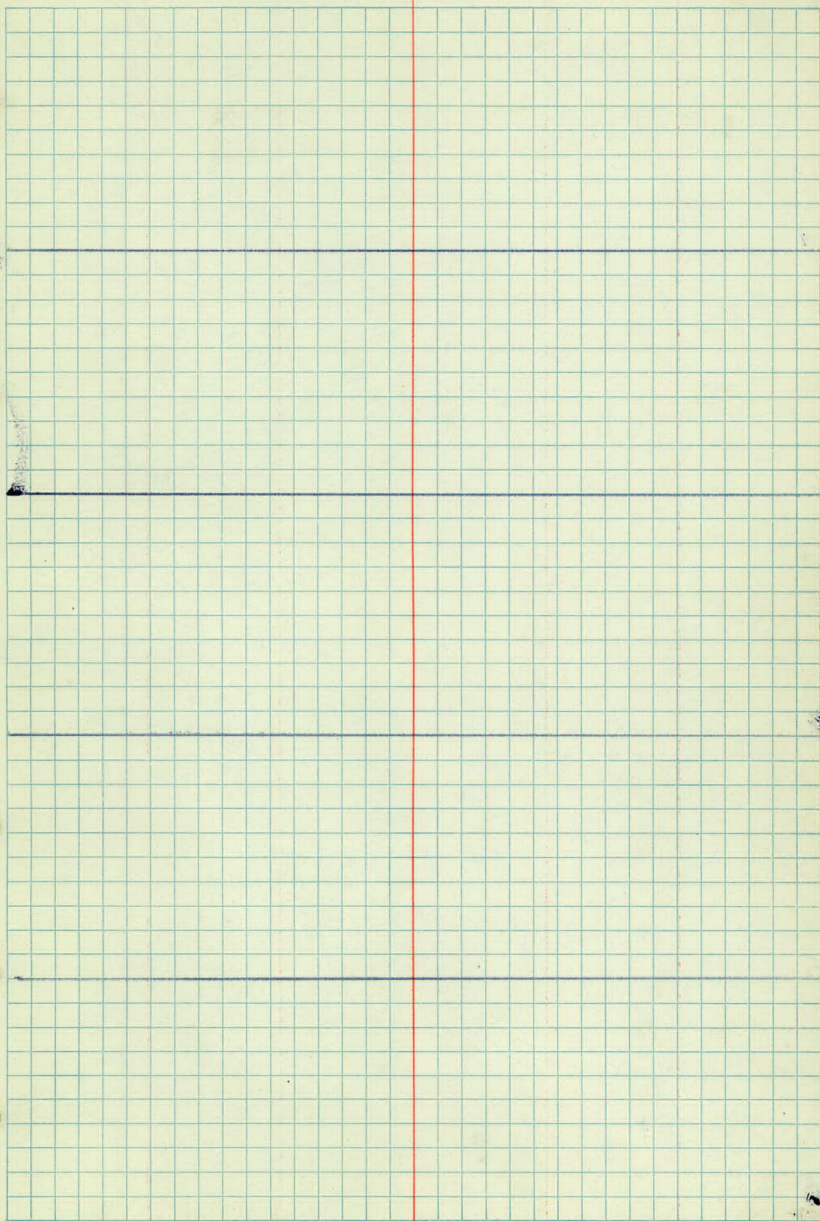
3

+ Clothes Line P.

+ Clothes Line P

2.

19 = 7



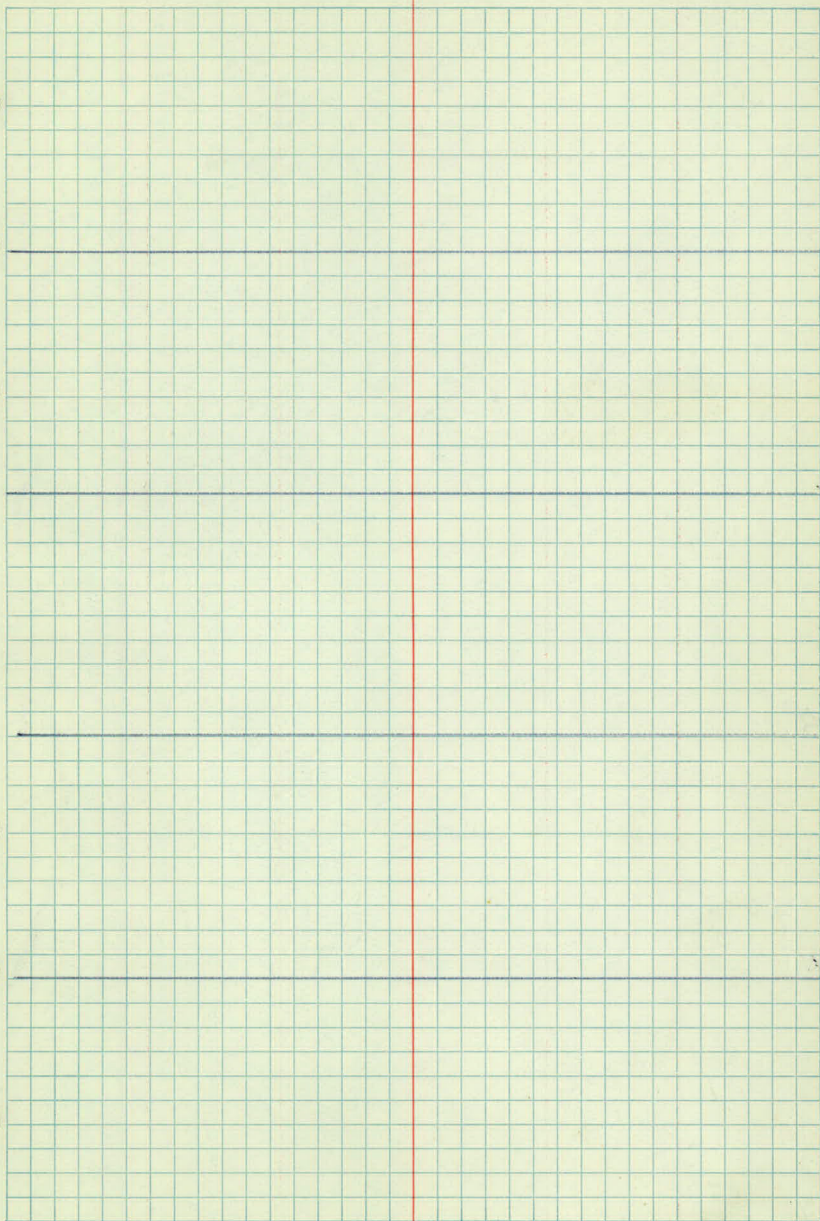
7

+11.10 P.O.T.
2

6

5

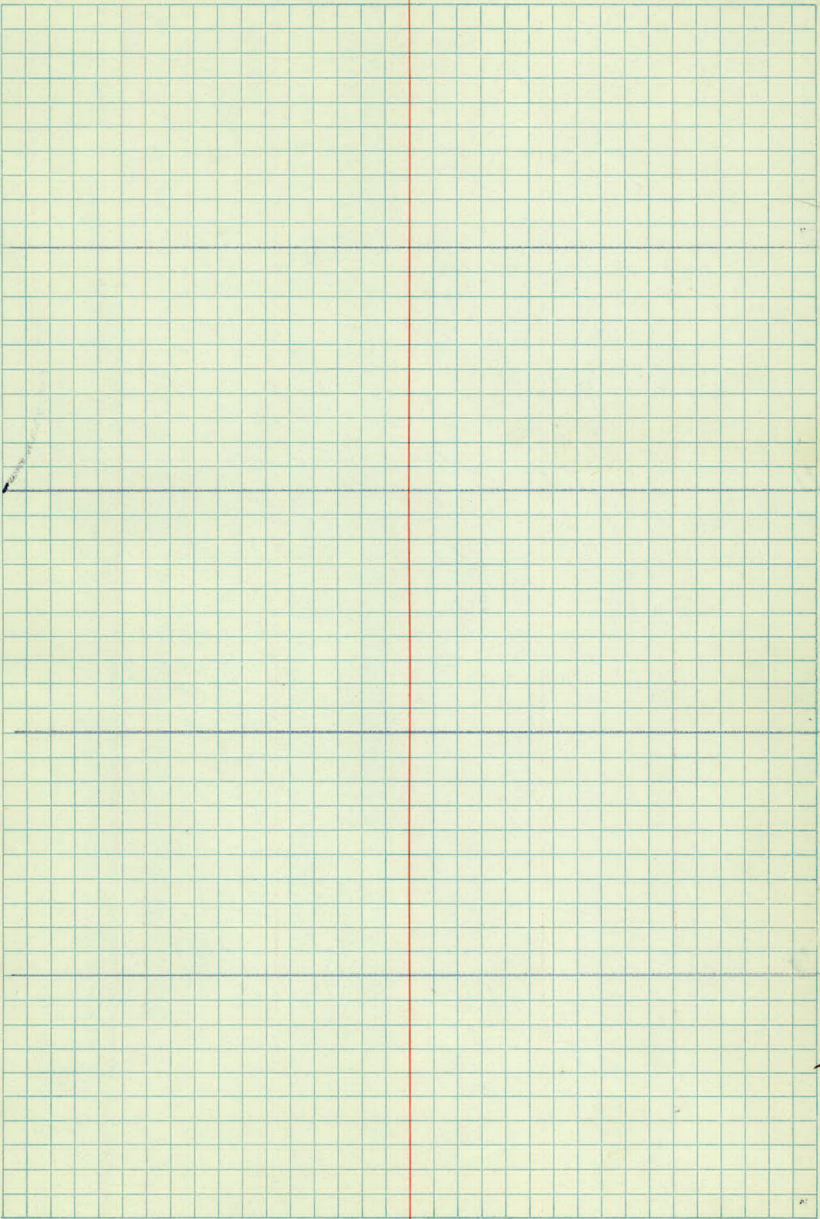
20-8



9

8

7

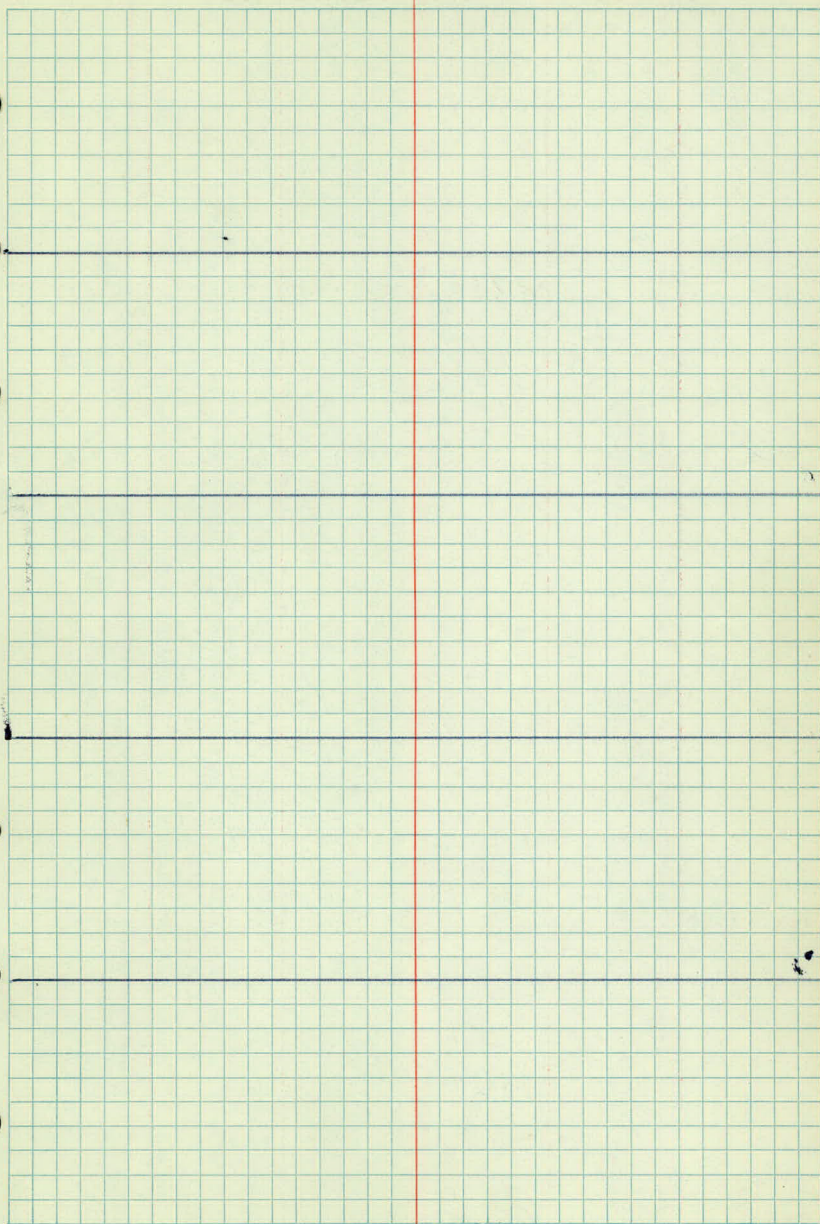


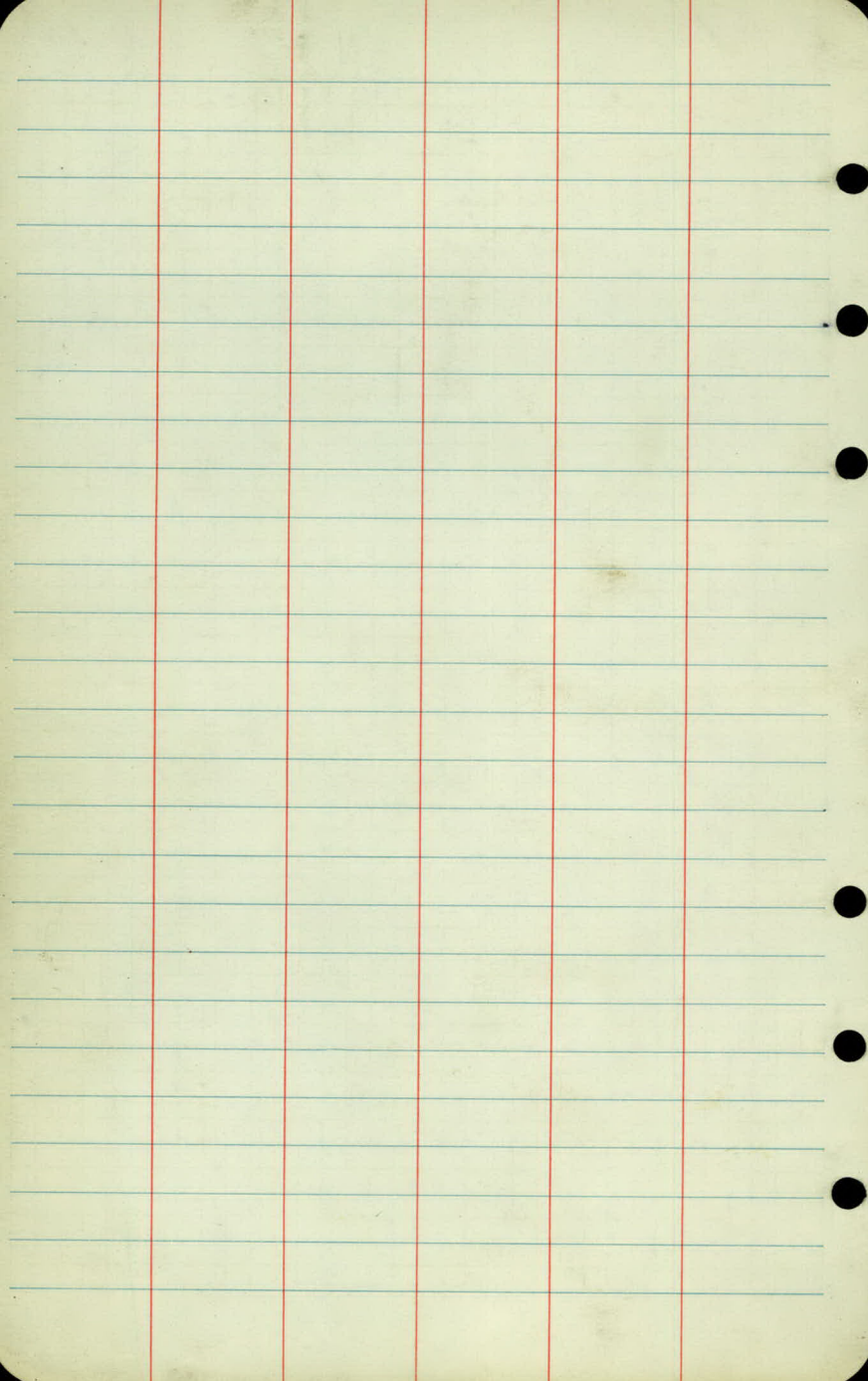
12

+27.80 N. Line

11

10





Oct. 26, 1970

23 T-1

FROST AVE CONNECTION

TOPOGRAPHY

TOPOG TAKEN FROM
B.L. 1

71 feet West of
East Line of City of St. Paul
Property until
Sta 8+00 ? Beyond

Run No. 10 So.

• Eke Box 42min 21. Pol.
+87 35 +98 32 +93 31

• E Cor TH • 14" Pop
+69 36 +83 43

+96 20" E H • TP +96 R. Tie
49 +64 25 +96 TH

+50 2 Walk +96 Walk +62 LP
27 40 28

+99 E Cor Shed • 1" P
32 +53 25

+36 R Tie TH +50 Bush
E. Side 25

+86 Begin • E Cor TH
Lowland +29 26

+23 8" O +21 12" O • Cor Bit
40 8 22

+12 12" O
35

+103 4" O
5

+22 18" P
25

+15 Walk
20

Bit
21

+85 Lilac
11

+85 Cor Bit
TH 23

+83 SE Cor TH
28

+77 16" Pop
20

+79 Lilac
11

+48 16" Pop
28

+43 8" O
23

+59 6" O
21

+43 2 Walk
31

+45 NE Cor T.H.
38

+19 8" Oak
31

+38 10" O
31

+43 6" P
27

+01 PP
13

+41 6" P
13

+33 R. Tie
Walk

0 + 00 = 33' N of 1/4 Line

Oct. 26, 1970

24 T-2

Sumac Bush

4

Edge Lowland
81

+90 Edge Lowland
E

+51 Edge Lowland
42

+22 Edge Lowland
62

3

+49 76	3" P	+52 76	Drain Pipe	+53 79	IP
+52 84	2" Walk	+45 73	2" P	+52 83	Elec Box
+37 75	24 Elm			+37 79	E. Cor TH
+21 69	16" Pop	+32 72	3" P	+54 99	E. Cor Double TH
				+60	B+T TH
		+25 52	Drain Pipe		
+20 46	1" P			+22 49	1" P
		+16 43	1" P		
+10 45	Walk				
+10 48	B+T				E. Cor TH
	Shed				

Oct 26, 1970

25

T-3

Woods

7

$$+89 \frac{PP}{69} + FeP. \quad +89 \frac{Twister Add On}{79}$$

+40 ^{Begin}
woods

$$+69 \frac{SE Cor Robin}{88}$$

+51 ^{R Tie}
Cabin

$$+11 \frac{TP}{86}$$

6

$$+96 \frac{10''0}{3}$$

$$+94 \frac{Trip 8''0}{7}$$

$$+69 \frac{12''0}{10}$$

$$+85 \frac{8''0}{2}$$

$$+60 \frac{16'' Elm}{60}$$

$$+48 \frac{Cor. Bit}{72}$$

$$+58 \frac{24''0}{16}$$

$$+51 \frac{6'' Birch}{70}$$

+36 ^{End}
Woods

$$+40 \frac{R Tie}{Bit}$$

$$+31 \frac{Port. TH}{34}$$

$$+23 \frac{Edge Woods}{6}$$

5

$$+102 \frac{Edge Woods}{5}$$

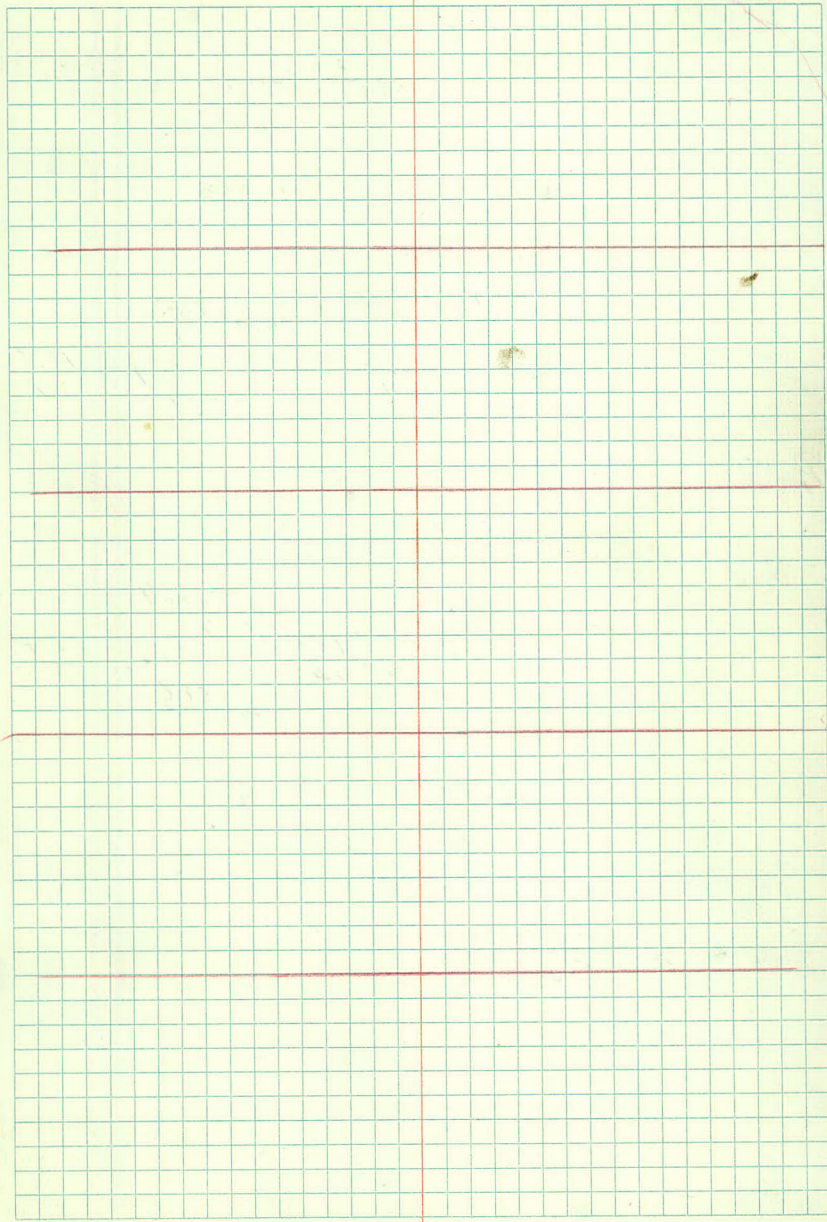
$$+83 \frac{Cor Bit}{68}$$

$$+80 \frac{Cor Low land}{8}$$

Oct. 26, 1970

26

~~T-4~~



+55 R Tie
House

+47 NW Cor Ho
101

26" Coll
+24 34

+08 8"0
52

+30 R Tie
Apt

+36 5"TP
48

+17 10" E/m
51

+99 26"0
63

+71 Iron
67

+89 PP
80

+84 12"0
37

+78 8" E/m
29

+73 14"0
78

+50 8"0
48

+62 14"0
11

+71 12"0
49

+73 5"0
40

+50 16"0
1

+48 22"0
68

+19 15"0
73

+30 10"0
15

+15 CL Post
74

+28 12" Coll
12

+09 CL Post
9

+20 CL Post
14

+27 CL Post
75

+00 SW Cor TH
51

offset

+70 End Fe
46

+68 Cor Shed
46

+50 to +70 Garden
55

+54 TP + Fe Post
46

+50 PP
49

Oct. 26, 1970

27

~~T-5~~

£

+03 $\frac{PP}{80}$

+00 $\frac{Gutter}{£}$
On Concave Curve

+51 $\frac{Tw 12" Ash}{16}$

+56 $\frac{MH}{71}$

+77 $\frac{£ Ent}{35}$

+49 $\frac{Tw 6" P}{95}$

+35 $\frac{Cor L 5' Sta 34}{43 - 59 \times 12'}$

+36 $\frac{12" O}{5}$

+35 $\frac{£ Ent}{34}$

+39 $\frac{MH}{72}$

+21 $\frac{3" P}{83}$

+36 $\frac{3" P}{83}$

+17 $\frac{3" P}{82}$

+10 $\frac{14" O}{76}$

+99 $\frac{26" O}{6}$

+97 $\frac{12" O}{4}$

+93 $\frac{PP}{65}$

+94 $\frac{74" O}{32}$

+60 $\frac{14" O}{66}$

+58 $\frac{3" P}{63}$

+52 $\frac{18" O}{60}$

£ $\frac{Alley}{53}$

+89 $\frac{8" O}{18}$

+74 $\frac{SEC Cor Apt}{100}$

+74 $\frac{10" O}{6}$

+65 $\frac{12" O}{42}$

+52 $\frac{18" O}{60}$

+52 $\frac{18" O}{60}$

+77 $\frac{14" O}{2}$

+58 $\frac{14" O}{63}$

+61 $\frac{20" O 11}{50}$

+80 $\frac{Cedar}{49}$

+69 $\frac{16" O}{1}$

+60 $\frac{14" O}{66}$

+58 $\frac{3" P}{63}$

+89 $\frac{8" O}{18}$

+74 $\frac{SEC Cor Apt}{100}$

+74 $\frac{10" O}{6}$

+65 $\frac{12" O}{42}$

+52 $\frac{18" O}{60}$

+52 $\frac{18" O}{60}$

FK
KP
Gene Wrt.

Oct. 26, 1970

28 ~~T-6~~

23.98

~~75.06~~

73

~~148.98~~

45.50

~~.08~~

118.50

18+05.10

2.50

15+55.10

11866

73

~~45.166~~

KP
DS
LPD
GA
LG

22 MARCH 1973
SUNNY 40° 29

FROST AVE CONN.

BENCH LEVELS

STA + π - ELEV.

BM 2.60 867.49 (864.89)

BM 3.63 868.30 2.80 864.69 (864.67)

12.29 875.61 4.98 863.32

10.06 878.15 7.52 868.09

3.23 874.14 7.24 870.91

8.16 877.51 4.79 869.35

12.41 886.01 3.91 873.60

12.05 894.72 3.34 882.67

11.78 905.50 1.00 893.72

9.26 909.38 5.38 900.12

3.03 906.35 (906.25)

22 MARCH 1973

DESCRIPTION

30

KELLER
PARKWAY

TOP N.E. WING WALL BRIDGE

TOP RIM PIPE CONN. LIFT STA METER BLE.

TOP PK NAIL STA 0+00

SPIKE IN 10" OAK 50' LT STA 1+50

SPIKE IN 24" OAK 20' LT STA 3+93

N.E. COR SIDEWALK 100' LT 6+00

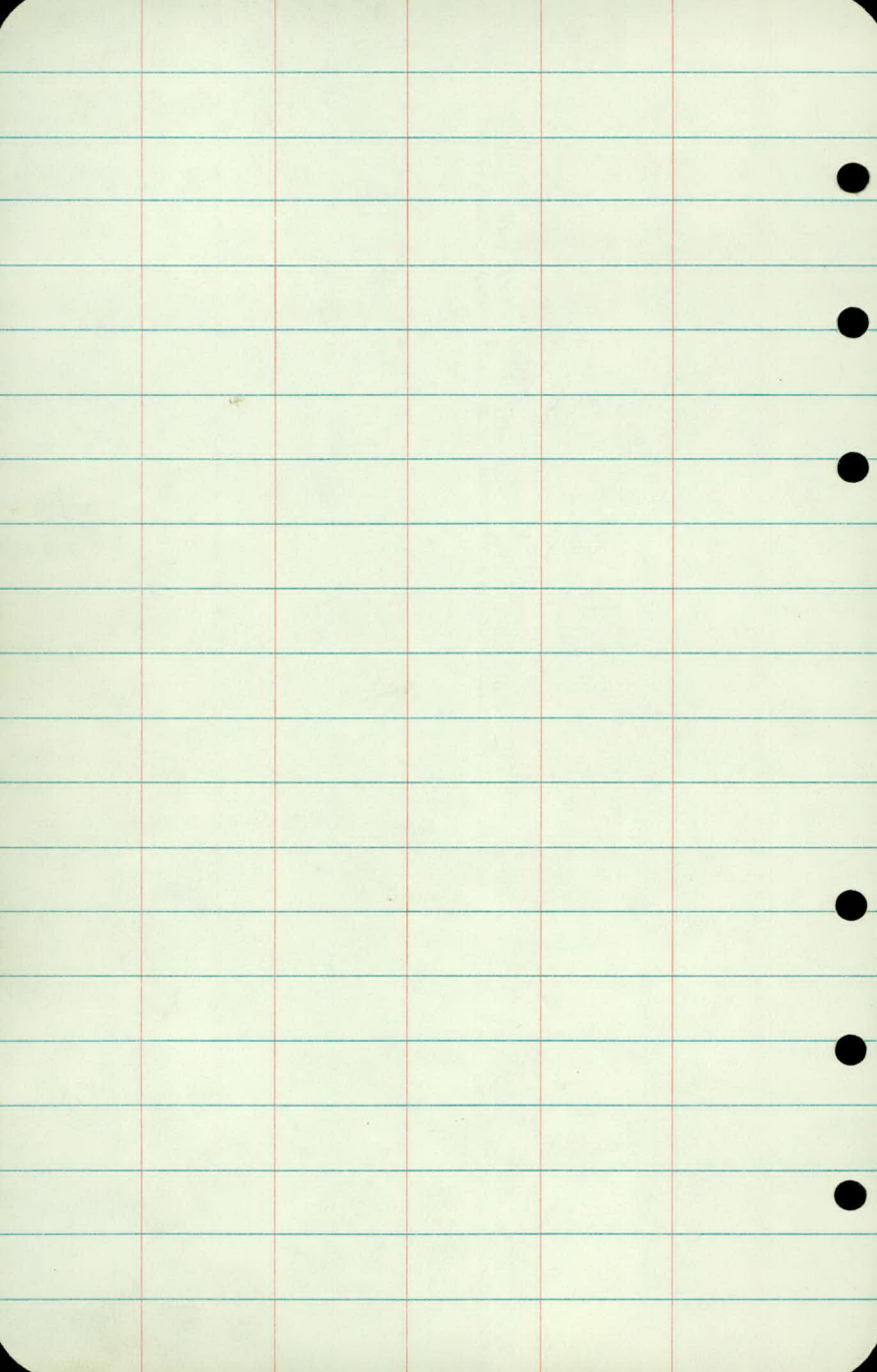
SPIKE IN 24" OAK 50' RT 8+20

TOP SPIKE & STA 9+50

TOP SPIKE & STA 10+32

& STA 12+18.35 & FROST AVE.

TOP MONT. FROST & ADELE



23 MAR. 1973

SUNNY 40° 31

Revised 3-31-78

FROST AVE. CONN.

X-SECTIONS

STA + π - ELEV.

BM 17.53880.85

(863.32)

0+00

✓

+15 = N. GUTTER $\neq$

+50

+65

✓

LT

£

23 MAR. 1973

RT 32

TOP PK £ STA 0+00

63.1	63.1	63.0	63.0	63.3	63.4	63.4	63.5
17.7	17.7	17.8	17.8	17.5	17.4	17.4	17.3
200	150	100	50		26	65	100

63.6	63.5
17.2	17.3
200	155

62.7	62.72	62.7	62.6	62.7	62.8	62.8
18.1	18.13	18.1	18.2	18.1	18.0	18.0
100	53	33		32	59	106
	CB					

63.9	63.3	63.3	63.7	63.5	64.0	64.3
16.9	17.5	17.5	17.1	17.3	16.8	16.5
100	66	32		34	65	100

64.0	62.61	63.1	63.8	64.6	64.5	64.8	66.1	65.4
16.8	18.24	17.7	17.0	16.2	16.3	16.0	14.7	15.4
91	75	62	19		26	46	60	100
	MH							

64.2
16.6
100

STA

+

π

-

ELEV

880.85

0+78

✓

1+00

✓

+25

✓

LT

23 MAR. 1973

RT

33

63.10	63.05	63.7	66.6	68.3	67.8	69.0	69.2	65.5
17.75	17.80	17.1	14.2	12.5	13.0	11.8	11.6	15.3
64	48	31	16		32	56	81	100

LIFT STA
COVER

62.73	64.0	64.3
18.12	16.8	16.5
76	92	100
MH		

63.2	63.0	64.8	64.4	68.7	72.7	73.6	71.8	70.8
17.6	17.8	16.0	14.4	12.1	8.1	7.2	9.0	10.0
72	60	37	35	22		13	30	48

62.3	63.9
18.5	16.9
84	100

66.2	69.0	71.5
14.6	11.8	9.3
100	85	66

68.9	67.8	70.3	73.3	75.7	77.4	78.4	74.1	68.2
17.9	13.0	10.5	7.5	5.1	3.4	2.4	6.7	12.6
48	37	34	18		21	51	72	

63.5	61.2
17.3	19.6
69	100

66.4
14.4
100

STA	+	T	-	ELEV.
-----	---	---	---	-------

		880.85		
--	--	--------	--	--

1+50				
------	--	--	--	--

✓				
---	--	--	--	--

2+00				
------	--	--	--	--

✓				
---	--	--	--	--

BM	10.68	878.77	12.76	868.09
----	-------	--------	-------	--------

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

LT

23 MAR. 1973
RT. 34

65.7	70.0	69.6	73.0	75.6	76.4	77.2	76.6	73.2
15.1	10.8	11.2	7.8	5.2	4.4	3.6	4.2	7.6
61	43	32	27		23	53	63	74

61.7	61.1
19.1	19.7
81	100

68.8	69.8
12.0	11.0
91	83
110	

64.9	68.4	72.2	73.0	74.8	74.2	69.7	66.5
15.9	12.4	8.6	7.8	6.0	6.6	11.1	14.3
83	68	43	29		16	40	69

60.0
20.8
100

65.7
15.1
100

SPIKE IN 10" OAK 50' LT STA 1+50

69.1	70.6	72.6	73.8	74.8	75.0	72.4	66.0	63.0	62.7	63.2
9.7	8.2	6.2	5.0	4.0	3.8	6.4	12.8	15.8	16.1	15.6
100	89	76	64	37	20		25	40	53	100

STA + $\bar{A}$ - ELEV.

878.77

3+00

✓

TP 3.04 872.46 9.35 869.42

3+50

✓

LT

23 MAR 1973

RT 35

74.8	78.1	77.2	76.2	73.9	71.0	67.4	65.0	62.5	62.0
4.0	0.7	1.6	2.6	4.9	7.8	11.4	13.8	16.3	16.8
100	90	64	39	17		17	29	40	75

62.0
16.8
100

TOP SPIKE $\neq$ STA 3+50

77.4	74.7	72.5	70.6	69.5	67.5	65.5	62.1
+4.9	+2.2	0.0	1.9	3.0	5.0	7.0	10.4
40	35	28	19		20	37	52

81.10
+8.6
45

62.0
10.5
100

STA	+	T	-	ELEV.
-----	---	---	---	-------

		872.46		
--	--	--------	--	--

4+00				
------	--	--	--	--

✓				
---	--	--	--	--

4+50				
------	--	--	--	--

✓				
---	--	--	--	--

TP	4.62	876.08	1.00	871.46
----	------	--------	------	--------

LT

23 MAR. 1973
RT 36

80.4	77.5	72.5	68.5	67.0	66.5	66.9	66.6	62.6
+7.9	+5.0	0.0	4.0	5.5	6.0	5.6	5.9	9.9
65	51	37	16		14	21	49	74

61.0
11.5
100

76.7	72.5	68.7	66.5	65.6	65.9	67.3	68.3	67.4
+4.2	0.0	3.8	6.0	6.9	6.6	5.2	4.2	5.1
60	49	29	11		10	22	33	48

79.6	83.5
+7.1	+11.0
70	84

61.2	61.7	63.7
11.3	10.8	8.8
100	90	67

SPIKE IN GROUND

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

		876.08		
--	--	--------	--	--

5+00				
------	--	--	--	--

✓				
---	--	--	--	--

+50				
-----	--	--	--	--

✓				
---	--	--	--	--

6+00				
------	--	--	--	--

✓				
---	--	--	--	--

LT

E 23 MAR 1973
RT 37

80.1	76.1	71.5	69.0	68.2	68.5	69.0	70.2	70.1	67.2
+4.0	0.0	4.6	7.1	7.9	7.6	7.1	5.9	6.0	8.9
80	66	51	47	17		7	19	37	52

84.7
+8.6
100

61.2 63.0
14.9 13.1
100 71

70.5	70.1	68.6	69.3	71.5	72.8	71.2	69.2	66.0
5.6	6.0	7.5	6.8	4.6	3.3	4.9	6.9	10.1
100	90	51	15		19	42	50	65

61.9 63.0
14.2 13.1
100 78

69.1	68.7	68.6	70.1	70.5	70.6	70.0	70.0	66.3
7.0	7.4	7.5	6.0	5.6	5.5	6.1	6.1	9.8
100	71	41	29		18	46	64	86
BT	BT							

63.8
12.3
100

STA + π - ELEV

876.08

6+50

✓

BM 8.60 877.95 6.69 869.39 (869.35)

7+00

✓

LT

23 MAR 1973

RT

38

68.3	68.3	67.1	66.0	68.1	69.9	71.4	71.0	69.1
7.8	7.8	9.0	10.1	8.0	6.2	4.7	5.1	7.0
100	74	41	20		19	52	71	78

68.1
8.0
100

N.E. COR SW 100' LT STR 6+00

65.6	66.5	68.0	69.2	71.9	73.5	74.1	74.9
12.4	11.5	10.0	8.8	6.1	4.5	3.9	3.1
46	20	5		11	29	46	67

65.4 65.5
12.6 12.5
72 100

74.3
3.7
100

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

		877.95		
--	--	--------	--	--

7+50				
------	--	--	--	--

✓				
---	--	--	--	--

+75				
-----	--	--	--	--

✓				
---	--	--	--	--

8+00				
------	--	--	--	--

✓				
---	--	--	--	--

LT

23 MARCH 1973

RT 39

65.5	67.2	70.9	72.8	74.2	75.4	76.6	77.0	77.2
12.5	10.8	7.1	5.2	3.8	2.6	1.4	1.0	0.8
42	26	13	8		14	26	49	74

65.7
12.3
56

65.0
13.0
100

75.6
2.4
100

65.3	66.1	68.2	72.5	74.0	75.2	76.9	76.9	76.4
12.7	11.9	9.8	5.5	4.0	2.8	1.1	1.1	1.6
64	36	16	6		9	22	62	85

64.8
13.2
100

74.7
3.3
100

65.9	66.0	67.9	71.1	71.9	73.9	75.1	75.1	74.4
12.1	12.0	10.1	6.9	6.1	4.1	2.9	2.9	3.6
75	34	16	5		12	32	69	90

66.0
13.0
100

73.3
4.7
100

STA + π - ELEV.

877.95

8+38

✓

+69

✓

TP

11.70 887.63 2.03 875.92 (875.93)

9+00

LT

23 MARCH 1973
RT 40

65.6	66.1	68.5	69.7	70.3	71.2	71.6	71.4
12.4	11.9	9.5	8.3	7.7	6.8	6.4	6.6
74	51	24	8		19	44	81

65.7
12.3
100

71.0
7.0
100

67.7	69.6	70.8	71.5	72.1	73.4	73.7	73.8	74.4
10.3	8.4	7.2	6.5	5.9	4.6	4.3	4.2	3.6
68	47	32	21		22	49	75	100

66.6
11.4
86

66.6
11.4
100

TOP SPIKE & STA 9+00

67.9	71.1	72.8	74.3	75.9	78.2	79.2	79.9	79.9
19.7	16.5	14.8	13.3	11.7	9.4	8.4	7.7	7.7
100	70	46	19		27	43	67	100

STA + π - ELEV

887.63

9+50

✓

TP 15.46 898.06 5.00 882.63 (882.60)

10+00

+50

TP 14.98 909.99 3.00 895.06 (895.01)

KP
DS
LPO
GA

LT

26 MAR. 1973
RT 41

74.6	75.3	78.3	80.8	82.1	84.7	87.6	90.2
13.0	12.3	9.3	6.8	5.0	2.9	0.0	+2.6
100	76	41	13		11	36	67

91.6
+4.0
100

TOP SPIKE ± STA 9+50

81.4	81.7	84.5	86.5	89.7	92.0	94.8	97.6	102.0
16.7	16.4	13.6	11.6	8.4	6.1	3.3	0.5	+3.9
100	72	50	32		15	38	60	100

87.1	88.3	91.7	93.7	95.1	96.0	98.6	101.8	103.6
11.0	9.8	6.4	4.4	3.0	2.1	+0.5	+3.7	+5.5
100	66	32	14		9	29	62	82

TOP SPIKE ± STA 10+50

104.6
+6.5
100

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

		909.99		
--	--	--------	--	--

11+00				
-------	--	--	--	--

✓				
---	--	--	--	--

11+50				
-------	--	--	--	--

✓				
---	--	--	--	--

TP	7.04	^{907.16} 907.18	9.85	900.14	(900.12)
----	------	--	------	--------	----------

LT

26 MAR 1973

RT

42

93.2	94.0	94.0	96.6	00.1	03.0	05.3	07.8	07.9
16.8	16.0	16.0	13.4	9.9	7.0	4.7	2.2	2.1
100	73	47	23		19	43	63	73

10.7	10.0
+0.7	0.0
100	81

97.3	97.4	98.0	00.1	03.7	07.7	07.1	07.3	09.0
12.7	12.6	12.0	9.9	6.3	2.3	2.9	2.7	1.0
100	74	36		22	57	58	67	70

11.0	10.0
+1.0	0.0
100	76

TOP SPIKE @ STA 11+50

STA

+

~~907.16~~
907.18

-

ELEV.

11+84

✓

+90 = ~~E~~ DITCH

✓

+97 = S. Shoulder Frost Ave.

LT

26 MAR 1973

RT

43

96.0	98.8	99.1	99.4	99.9	96.3	93.9
11.2	8.4	8.1	6.8	3.3	0.9	3.4
100	63	31		30	54	61

07.2	07.6	04.2
0.0	+0.4	3.0
100	73	68

93.8	95.5	97.2	99.2	99.4	99.81	93.3
13.4	11.7	10.0	8.0	6.8	7.35	3.9
100	61	33		28	54	58

02.3	00.91	03.6
4.9	6.25	3.6
100	78	74

95.1	96.9	98.4	99.7	99.7	92.1	93.2
12.1	10.3	8.8	7.5	6.5	5.1	4.0
100	69	35		27	64	100

STA	+	T	-	ELEV.
		907.16		
		907.18		

12+18 = $\neq$ FROST AVE.

✓

BM

	906.30
0.86	906.32
	906.25

LT

26 MAR. 1973

RT

414

91.9	93.7	95.9	98.0	00.1	01.8	03.4	03.8
15.3	13.5	11.3	9.2	7.1	5.4	3.8	3.4
200	150	100	50		40	91	100
						06.0	05.1
						1.2	2.1
						200	150

TOP MONT. ADELE & FROST

STA + π - ELEV.

BM 8.77 878.12

869.35

12.28 888.21 2.19 875.93

12.67 895.27 5.61 882.60

9.95 904.96 0.26 895.01

6.94 907.06 4.84 900.12

7.00 900.06

0.86 906.20 906.25

BM 3.82 873.17

869.35

7.82 865.35

2.90 870.27 870.50

4.56 868.61 868.7

Add'l Elevs 3-31-78
DESCRIPTION 45

N.E. COR SW 100'± LT 6+00

± STA 9+00

± STA 9+50

± STA 10+50

± STA 11+50

± STA 12+18

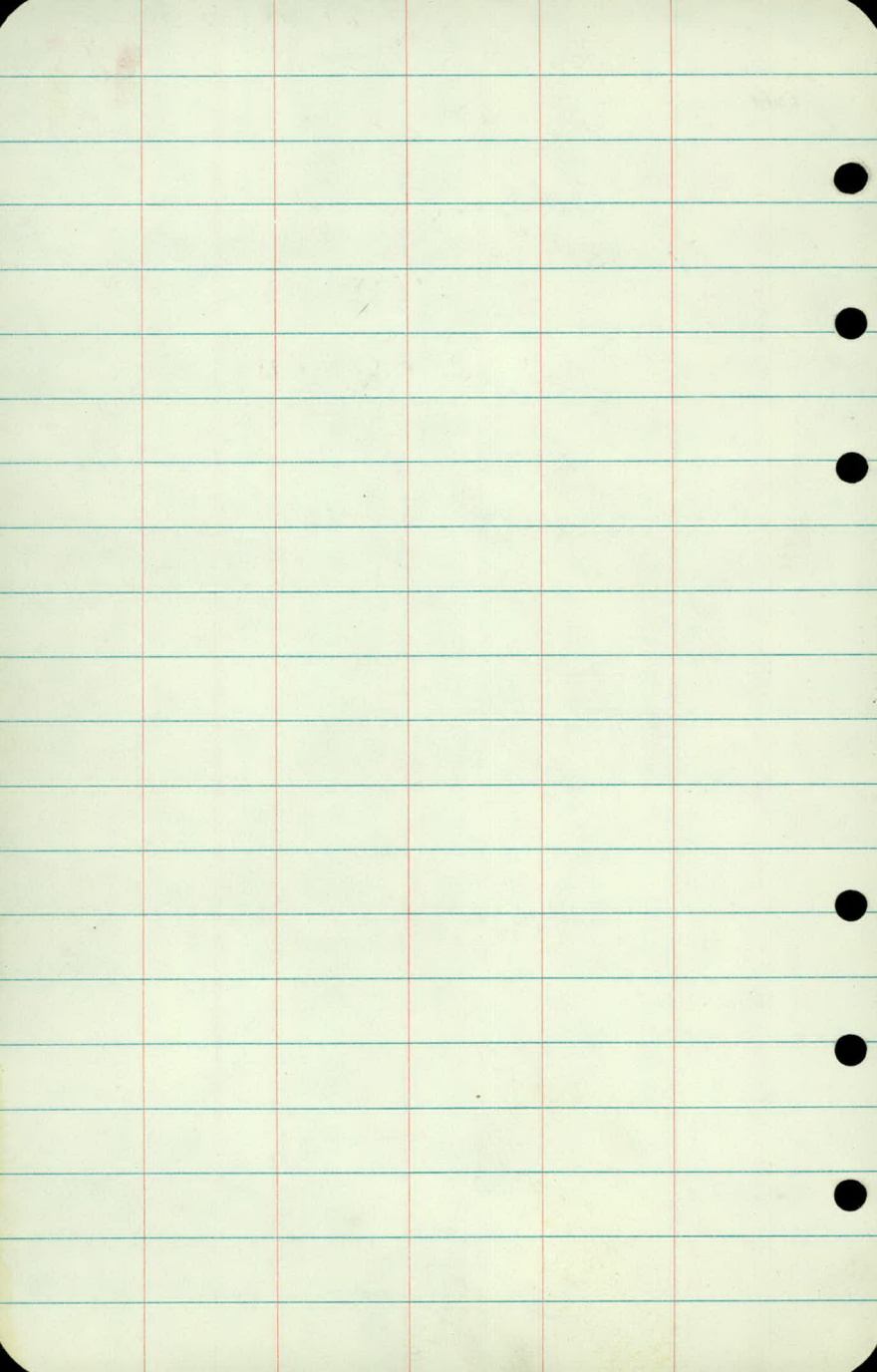
TOP MONT. FROST : ADELE

NE. COR SW 100' LT STA 6+00

FL 9" VIT 89' LT STA 6+80

± STA 6+00

BT 71' LT STA 6+00



Oct. 30, 1970

46 ~~11~~

FROST AVE. CONN.

East Shore Drive

to

FROST AVE

X-sections

possibly on New Base Line

Sta + Δ - E/ev.

906.25

BM 2.29 867.18

864.89

BM 13.80 878.47 2.51 864.67

R.P.W to PPE

✓

BM 8.27 885.82 0.92 877.55

TP 1.79 874.90 12.71 873.11

TI

"

TP 4.17 873.17 5.90 869.00 Sta 6.3

From N

Sta 4 7.2 866.0

" 3 8.4 864.8

" 2 7.8 865.4

BM 8.07 879.71 1.53 871.64

Oct. 30, 1970 47-12
 Lt. Rt.

Top N.E. Wing Wall bridge Keller Parkway
 Top Rim pipe Connection Lift Sta Meter Pole

83.1	63.0	67.1	66.8	69.9	73.8	76.7
15.4	15.5	11.4	11.7	8.9	4.7	1.8
0	10	29	35	42	65	86
PPW					£9.98	

66.2	75.3	78.5	78.1
12.3	3.2	0.0	0.4
170	142	126	107
Driveway	PPE		

Spike in Cottonwood

83.3	79.8	76.8	73.7	71.0
2.5	6.0	9.0	12.1	14.8
0	5	10	14	24
Cor Shed				

71.1	68.9	66.7	64.8	62.2
3.8	6.0	8.2	10.1	12.7
24	48	70	85	94
				Cor. Garden

E. End Drainage Pipe

Sta

877.71

2

1

BM 13.28 891.00 1.99 877.72

0+00 2.0 889.0

± Frost 1.0 890.0

BM 11.77 901.35 1.42 889.58

TP 2.36 908.46 0.25 901.10

BM 2.19 906.27 (906.25)

Base Line Oct 30, 1920

~~48~~ 13

72.9	68.7	65.4	65.4	65.5	65.6	66.1
6.8	11.0	14.3	14.3	14.2	14.1	13.6
38	W	14	0	14	28	47
Walk	31					

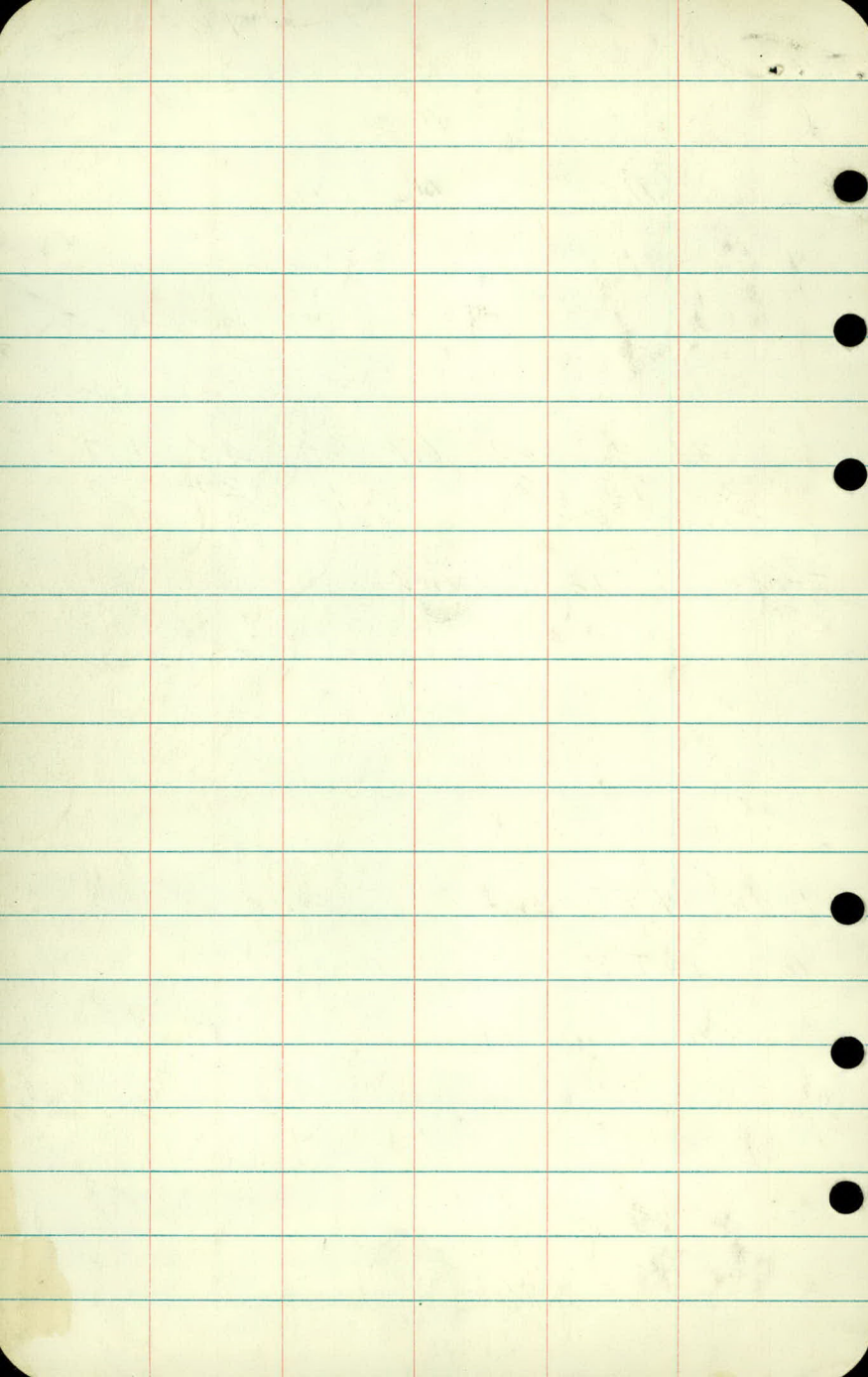
76.4	76.4	73.7	73.0	73.3	74.9	78.0
3.3	3.3	6.0	6.7	6.4	4.8	1.7
20	15	8		14	29	50
Walk						

Spike in 12" Cottonwood

Iron N E Property Corner

Nail in T P

Top Monument at Adel & Frost



Frost Ave

STRUCTURAL DATA

Conn

TYPE

CB

#4

STORM



ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

RIGHT

LEFT

SIZE

0-14

51'

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM
BOTTOM OF M.H.
TO TOP OF CASTING

ELEV.

3.20

DISTANCE
FROM HIGHEST
FLOW LINE TO
TOP OF CASTING

862.80

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

TO LAKE
18" CMP



DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT

Frost Ave
CONN

STRUCTURAL DATA

TYPE

CB #5

STORM



ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

RIGHT

LEFT

SIZE

0+12

53'

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM
BOTTOM OF M.H.
TO TOP OF CASTING

ELEV.

3, 10

DISTANCE
FROM HIGHEST
FLOW LINE TO
TOP OF CASTING

862.68

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

18" CMP



DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT

Frost Ave
Comm

STRUCTURAL DATA

TYPE MH #6

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

RIGHT

LEFT

SIZE

0+58

75

9"

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

1-4' SECT

BRICK

1-4' CONE CONCENTRIC

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

None

CONC. RINGS

0

0

0

DEPTH FROM
BOTTOM OF M.H.
TO TOP OF CASTING

ELEV.

7.70

DISTANCE
FROM HIGHEST
FLOW LINE TO
TOP OF CASTING

862.59

ETC.

INV.

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

8"

£

8"

DESIGN

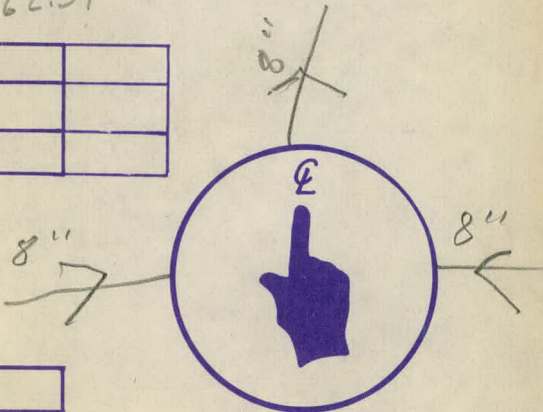
ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



F.A.
Conn

STRUCTURAL DATA TYPE MH #7

STORM		ELECTRIC		WATER	
SANITARY	✓	TELEPHONE		OTHER	
STATION	RIGHT	LEFT	SIZE		
0+71		76	9	INCH CASTING	

TYPE OF CONST.	COMMENTS
BLOCK	
BRICK	
SECTIONAL	

ADJUSTING RINGS	TYPE	NO.	DEPTH	COMMENTS
BLOCK				
BRICK				
CONC. RINGS				

DEPTH FROM
BOTTOM OF M.H.
TO TOP OF CASTING
DISTANCE
FROM HIGHEST
FLOW LINE TO
TOP OF CASTING
ETC.
INV.

ELEV.	
8.32	
862.69	

SIZES OF ALL
PIPES AND
DIRECTION OF
FLOW

DESIGN

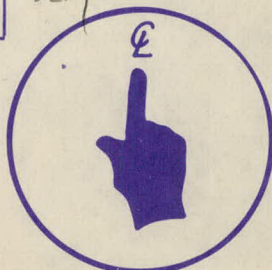
ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT

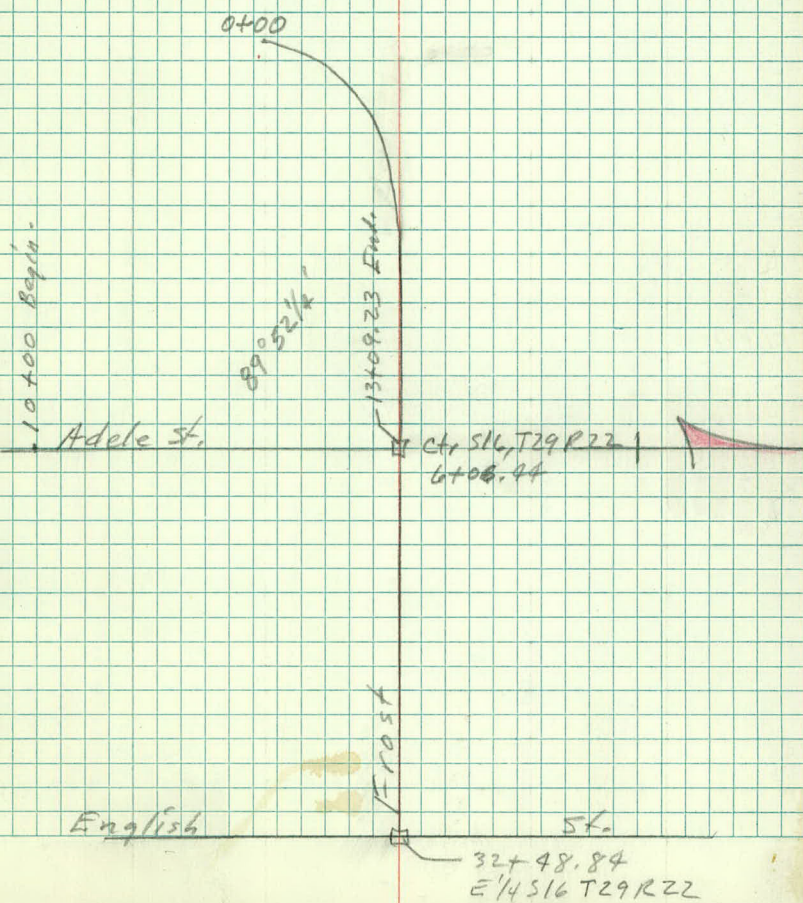


RG
LPD
DS
GA
RJ

Jan 30, 1975
Pthly cldy 5°

21

Topography of ADELE ST.



+50 Lt

2 14
6

Rt

NW Cor Ho
+26 47

4" Coff
+06 18

5" pike

12+00

5 15

+00 33

NE Cor Ho. (2-S-St.)

+99 95

tw. 6" Catalpa
+95 29

+81 Ent (30'±)

End woods

14" Ash
+76 37

+52 11

SE Cor Ho
+65 95

30" Coff
+42 40

8" Coff
+26 47

8" Coff
+34 47

11+00

woods
+00 9

4 10

12" Coff
+98 30

18" Coff
+02 28

10" Coff
+72 33

16" Coff
+91 25

st p
+50 60

36" Coff
+43 40

4" Poplar
+46 29

woods
+00 9

NW Cor Ho
+13 56

st p.
+14 30

10+00

3 18

Jan 30, 1975

Lt

E

Rt

22



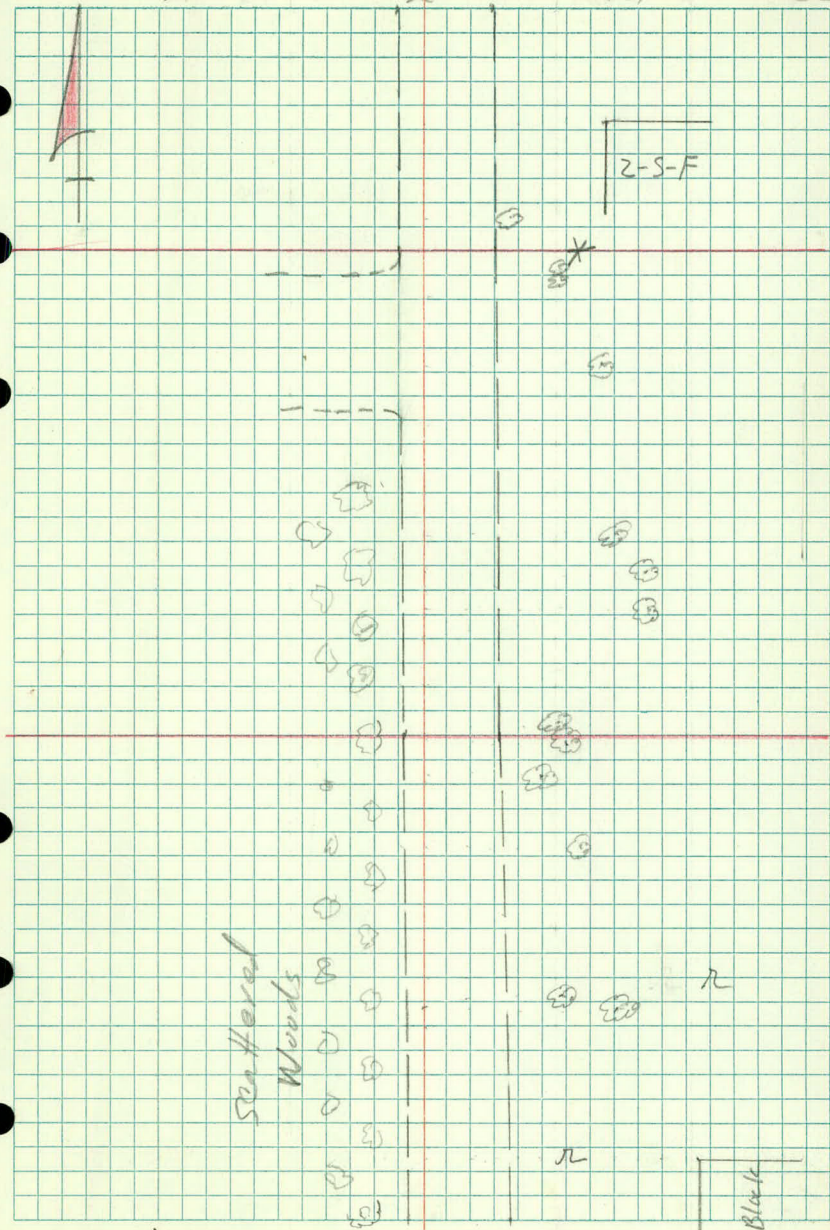
2-S-F

San Herod
Woods

n

n

1-S-Black



Lt

2

Rt

+09.44 End.

13+00

+92 $\frac{ER}{28}$

+92 $\frac{ER}{27}$

+65 $\frac{BR}{9}$

+50

+73 $\frac{BR}{12}$
Pd
G 14

Jan 30, 1975

Lt

Q

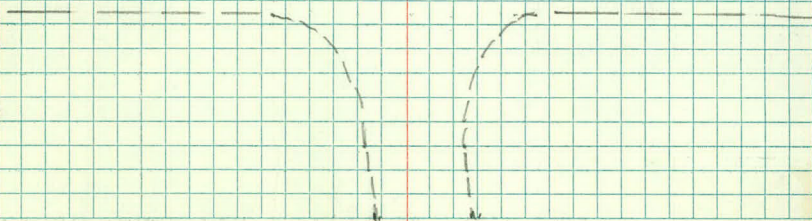
Rt

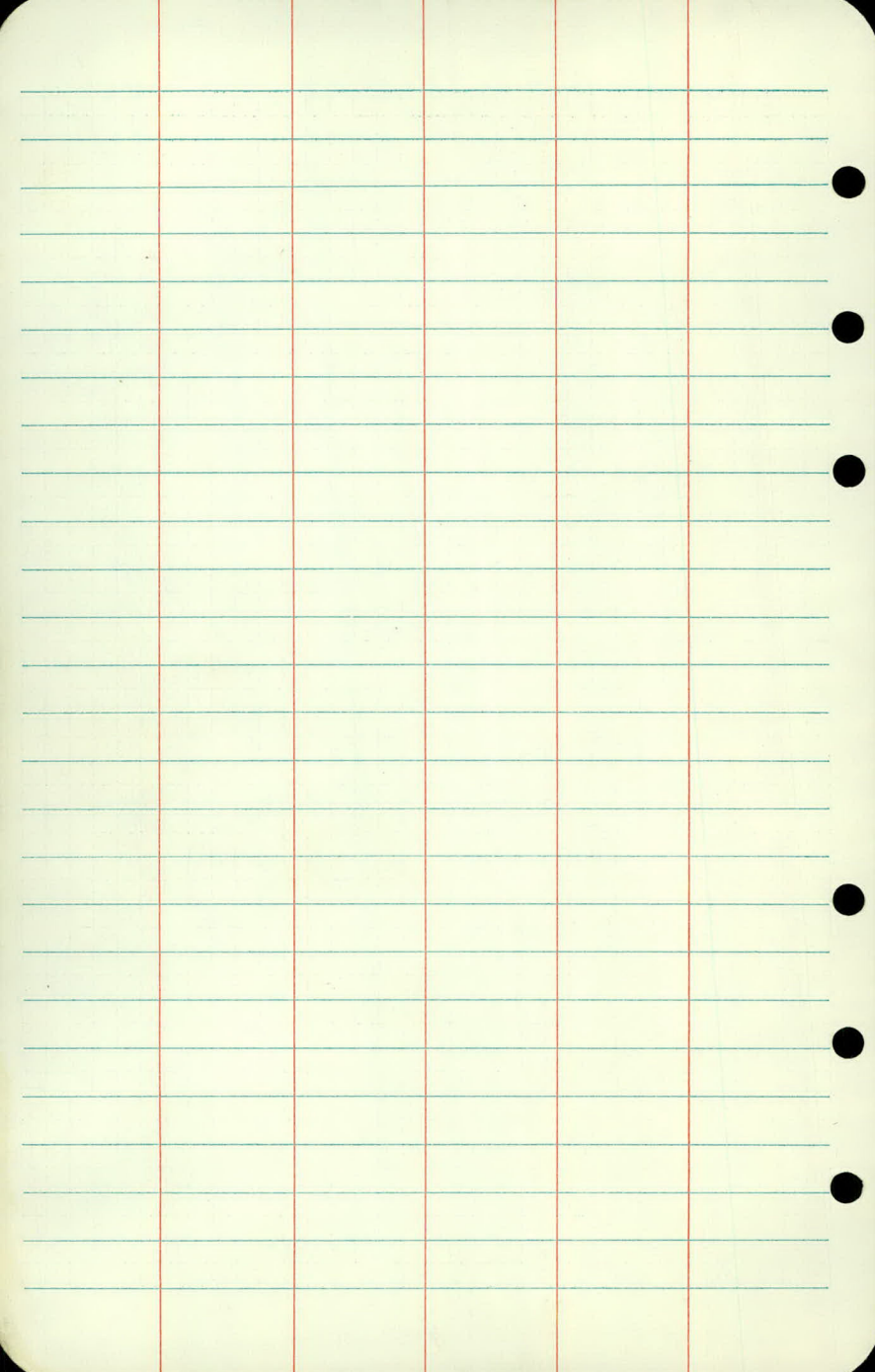
23

FROST

Mont Ctr 516

AVE





RG
DS
LPD
GA
RJ

Jan. 30, 1975
cldy. 10°

24

X-SECTIONS of

ADELE ST.

sta 10+00 - sta 13+09.44

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

BM	12.24	918.60		906.36
----	-------	--------	--	--------

10+00

+50

11+00

+50

+81

Ent Lt.

12+00

Jan 30, 1975

Lt.

2

Rt

25

Top Steel Mont Ctr Sec 16

9.13¹

9.5	9.3	6.9	5.8	5.5	4.9	4.2	4.3
50	34	15	5		18	35	55 Hd.

10.8	9.4	8.1	6.4	6.4	5.9	7.4	7.0
50	23	12	4		15	25	50

9.3	8.1	6.7	5.9	6.0	5.4	6.6	6.3	6.0
50	30	15	4		18	26	41	50

4.6	4.3	4.8	4.7	4.8	4.2	4.0	4.2
50	31	15	4		16	38	50

3.3	3.3	3.9	4.3	4.4	4.5	3.3	2.8	2.8	3.5
50	32	20	6		15	20	25	36	50

3.3	3.6	5.0	5.2	5.2	2.9	3.1	3.4
50	26	7		13	22	41	50

Sta + π - Elev.

918.60

12+50

+92

Gutter

TBM

12.12 906.48

BM

12.24 906.36 (906.36)

13+09²³

Jan 30, 1975

Lt

Lt

Rt

26

9.5	9.4	9.1	8.9	9.0	9.2	6.9	6.1
50	36	17	7		13	24	50

10/06

12.6	12.3	12.0	11.8	11.6	11.6
50	34	18		22	50

PK nail & Sta 6+00

FROST AVE.

