

OFFICE OF COUNTY ENGINEER  
RAMSEY COUNTY, MINN.

PLAN

Survey

FROST AVE.

From BIRMINGHAM To WHITE BEAR

Road Acc't. No. \_\_\_\_\_

D12-848

Date Filed 2-28-86

File \_\_\_\_\_

ML  
DS  
DK

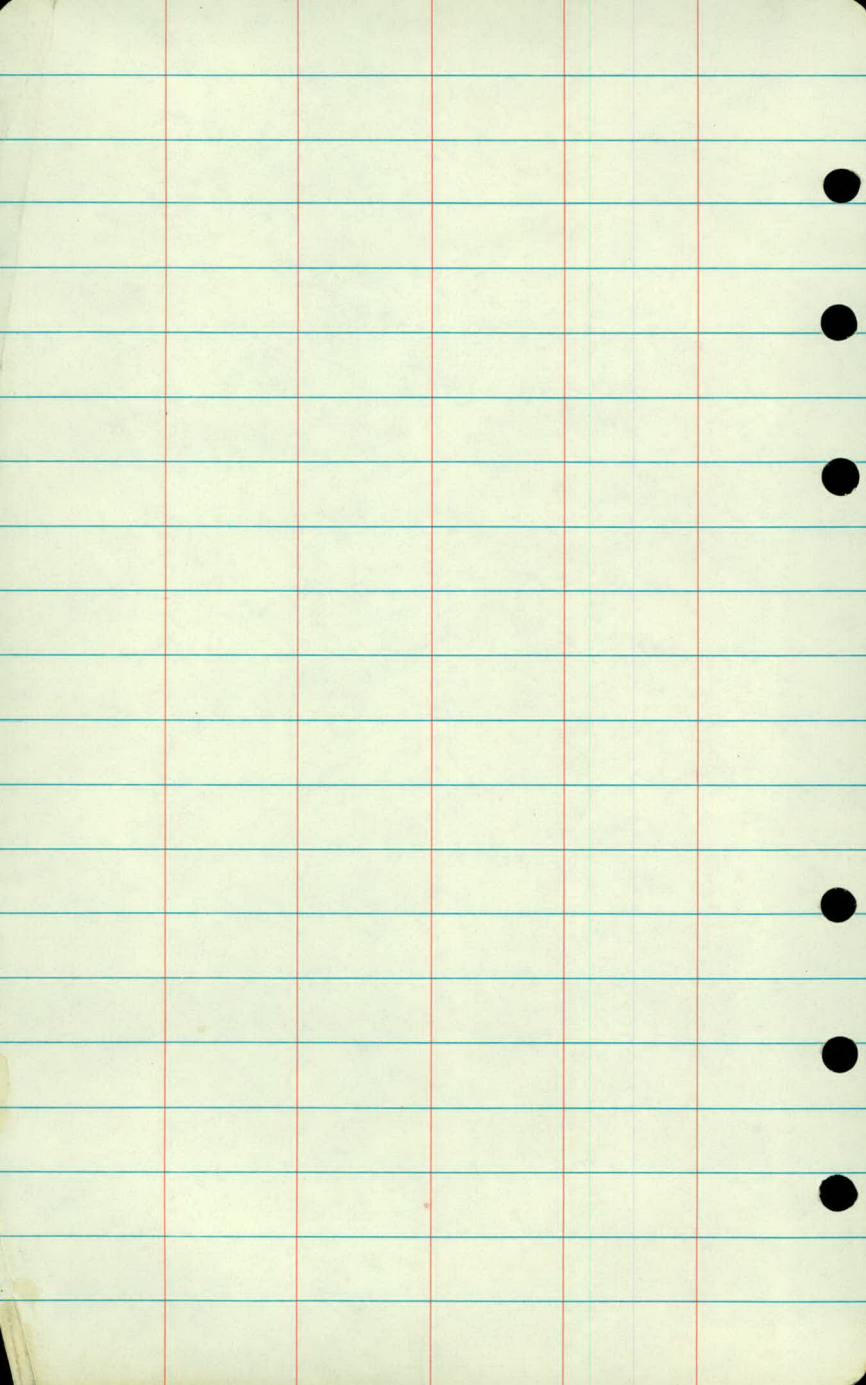
Sunny 60°  
SEPT 29, 81 1

PLAN SURVEY  
FROST AVE

300' ± WEST OF BIRMINGHAM

TO HAZELWOOD AVE





ALINEMENT

STA

PT

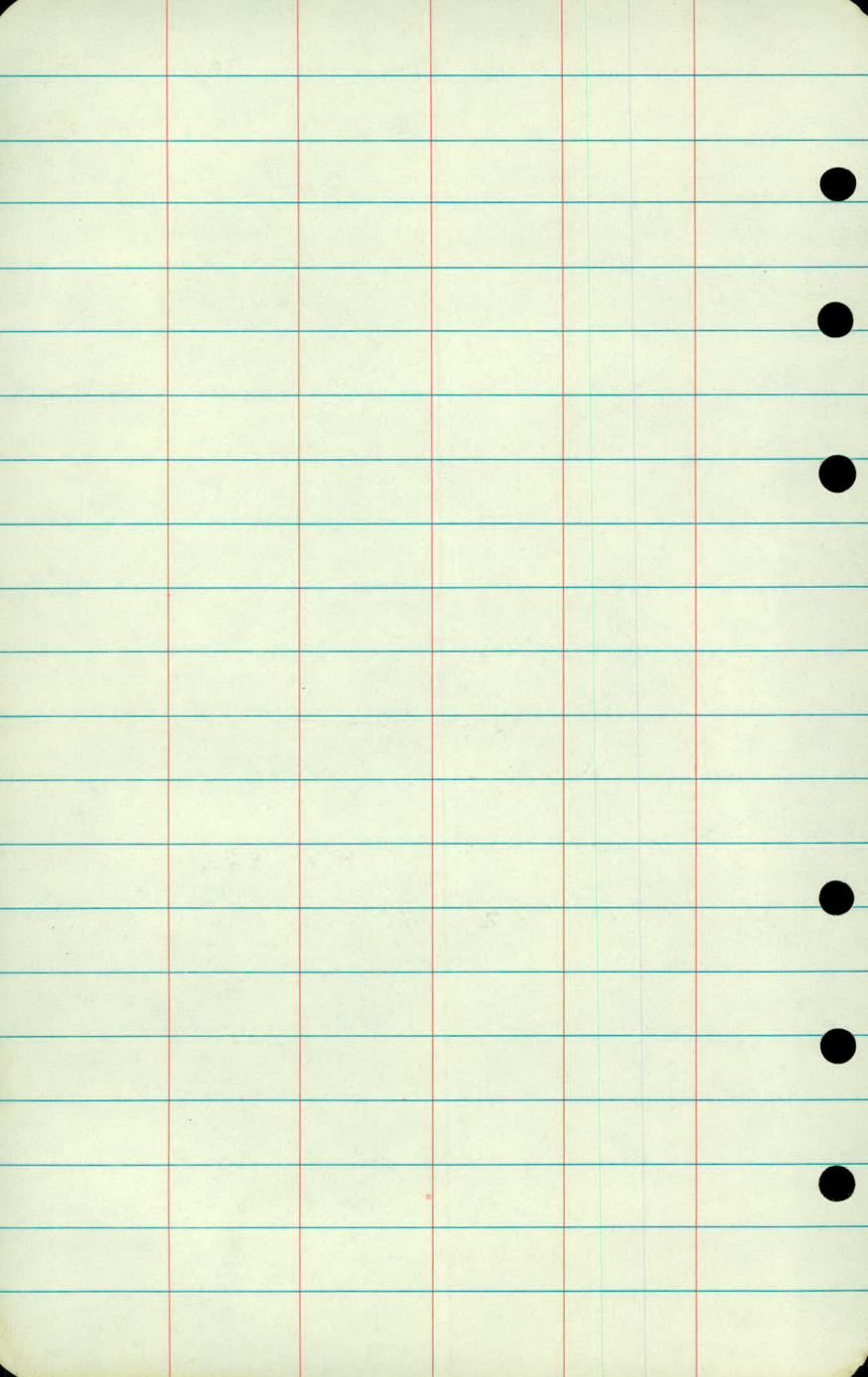
58+98.72 MONUMENT HAZELWOOD + FROST

46+28.03 P.O.T.

43+00 BEG SURVEY



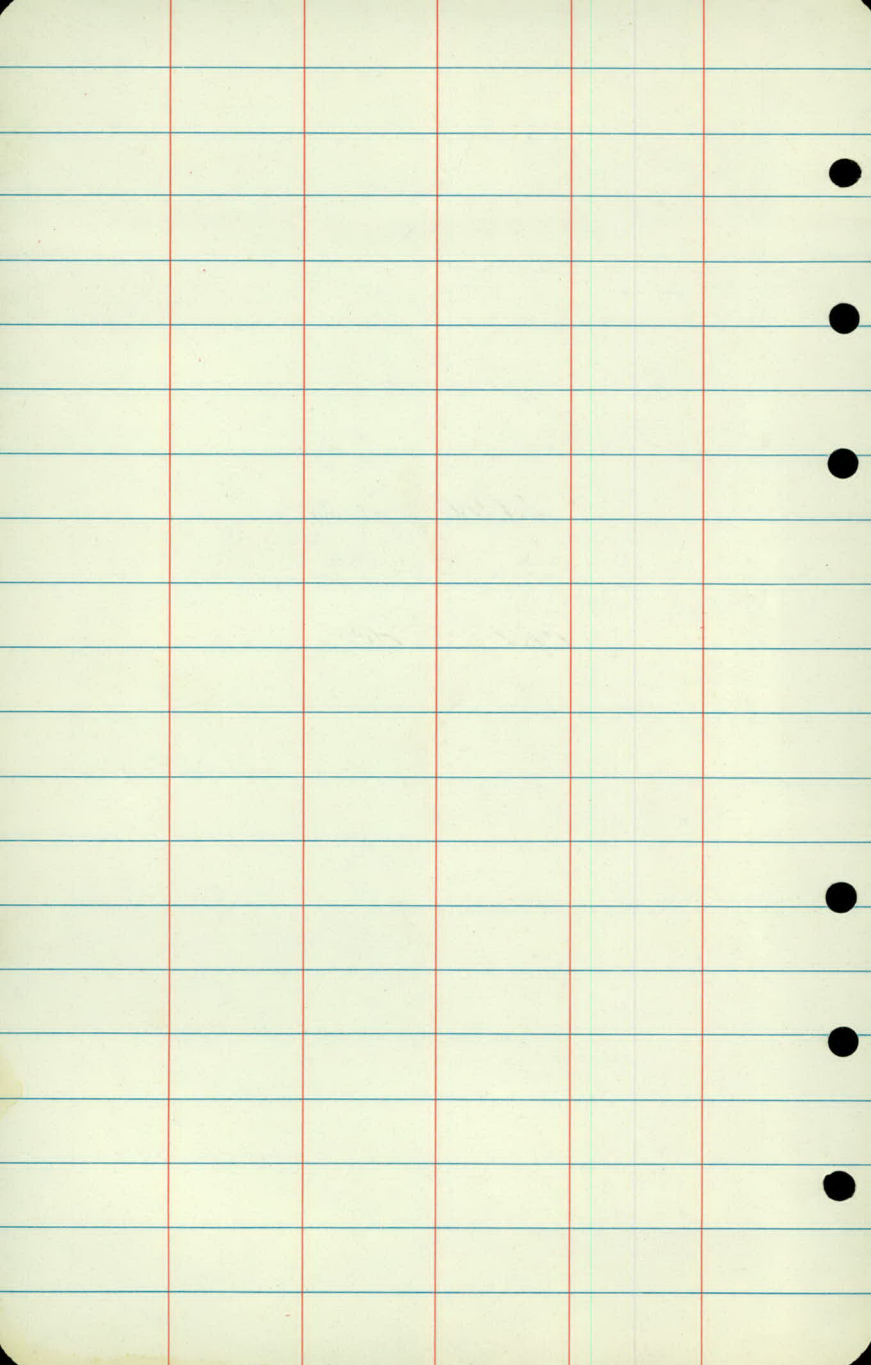




PLAN SURVEY

FROST AVE.

HAZELWOOD TO WHITE BEAR AVE





ML  
DS  
MR

DEC 27, 18  
SUNNY 2°

ALINEMENT

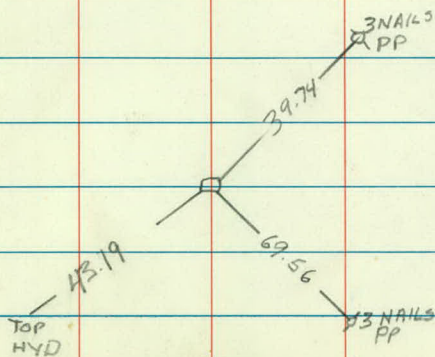
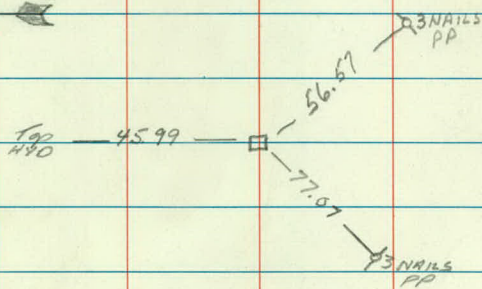
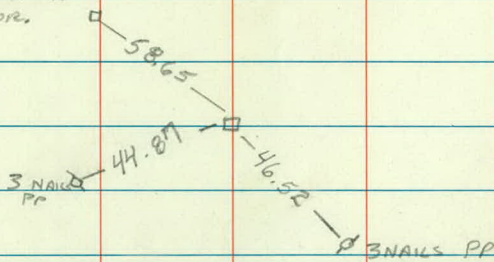
FROST AVE

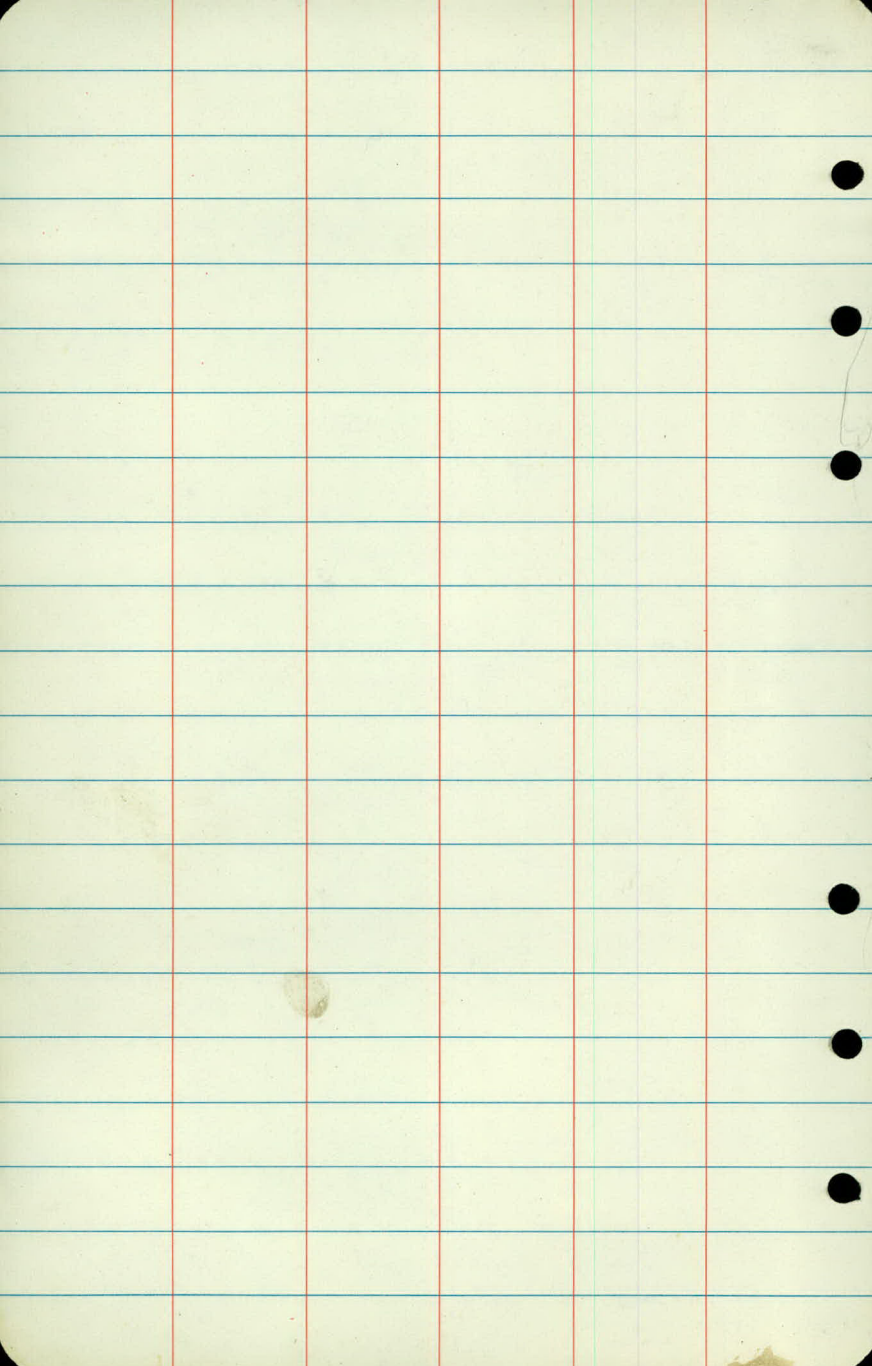
HAZELWOOD TO WHITE BEAR AVE

| STA      | POINT                         |
|----------|-------------------------------|
| 84+00    | POL                           |
| 72+00    | POL                           |
| 58+98.72 | HAZELWOOD AVE (C.I. MONUMENT) |

2

Top of PLANTER  
SW COR.







ML  
DS  
DK

Sunny 60°  
SEPT 29 81 4

BENCH MARKS

FROST AVE

300± WEST BIRMINGHAM

TO HAZELWOOD AVE

| STA             | +    | $\Delta$ | -    | ELEV            |
|-----------------|------|----------|------|-----------------|
| BM <sub>1</sub> | 2.05 | 904.43   |      | 902.38          |
| BM <sub>2</sub> | 4.73 | 908.86   | 0.36 | 904.07          |
| BM <sub>3</sub> | 4.32 | 910.45   | 2.67 | 906.13          |
| SS 4            |      |          | 1.89 | 908.56          |
| BM <sub>5</sub> | 5.82 | 912.61   | 3.66 | 906.79          |
| BM <sub>6</sub> | 2.74 | 914.21   | 1.14 | 911.47          |
| BM <sub>9</sub> | 0.80 | 912.95   | 2.06 | 912.15          |
| BM <sub>8</sub> | 5.62 | 913.06   | 5.51 | 907.44          |
| BM <sub>7</sub> | 2.17 | 914.32   | 0.91 | 912.15          |
| BM <sub>6</sub> | 1.03 | 912.49   | 2.86 | 911.46          |
| BM <sub>5</sub> | 3.74 | 910.52   | 5.71 | 906.78          |
| SS 4            | 4.50 | 905.72   | 1.98 | 908.54          |
| BM <sub>3</sub> | 2.64 | 908.76   | 4.40 | 906.12          |
| BM <sub>2</sub> | 0.60 | 904.65   | 4.71 | 904.05          |
| BM <sub>1</sub> |      |          | 2.29 | 902.36 (902.38) |

Top H4P NW Cor DIETER + FROST

NE Cor Bottom STEP. HO<sup>2</sup> 1488

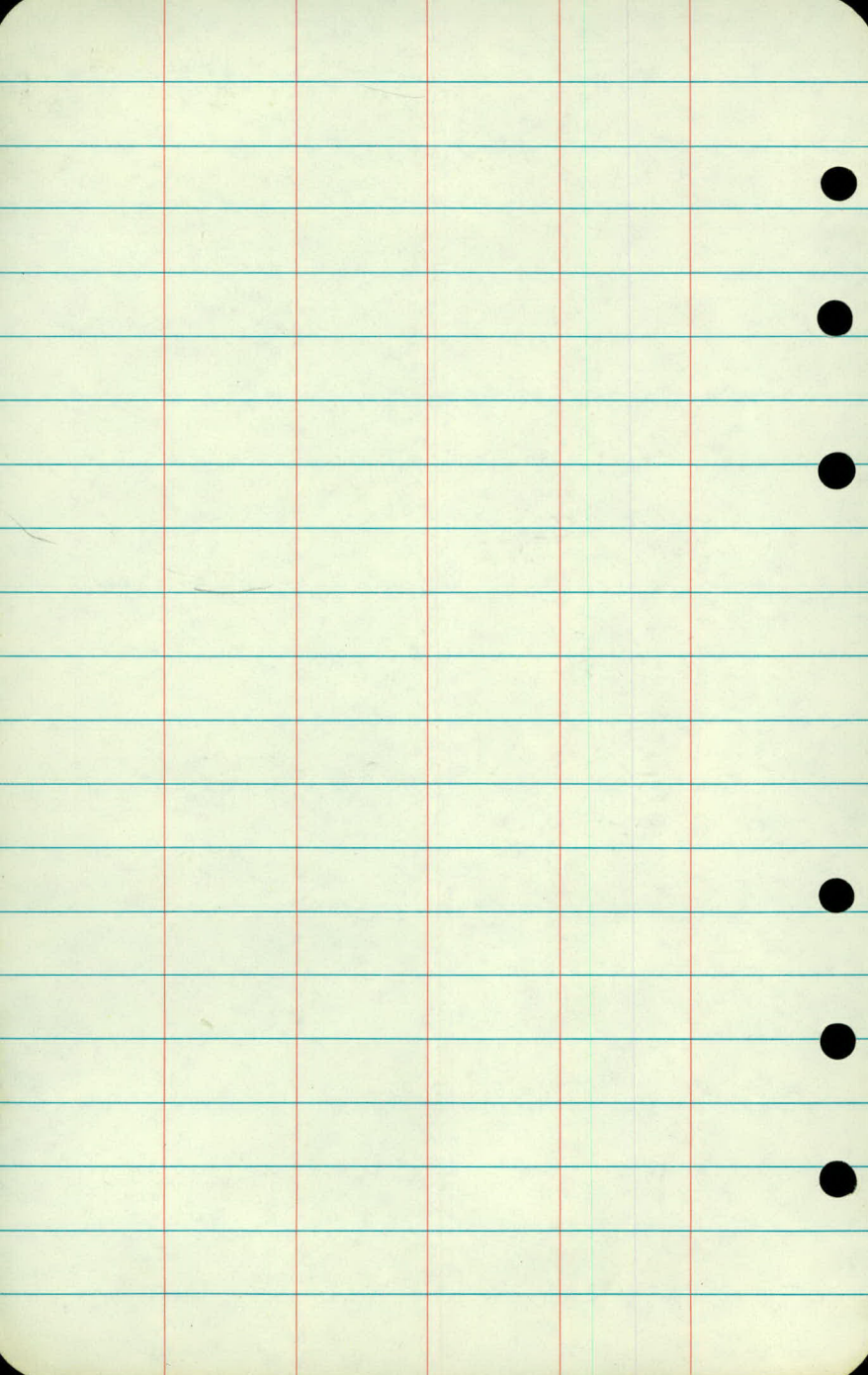
Top H4D NW Cor BARCLAY + FROST

Spill IN PP 50+80 RT

Top H4D NW Cor MANTON + FROST

Top H4D 45+50 LT 35'

Top H4D NW Cor IDE + FROST





ML  
DS  
RC

SUNNY 30°

BENCH LEVELS

FROST AVE

HAZELWOOD TO W. B. A.



| STA              | +     | $\pi$  | -     | ELEV     |
|------------------|-------|--------|-------|----------|
| BM <sub>1</sub>  | 0.79  | 974.29 |       | 973.50   |
| BM <sub>2</sub>  | 0.32  | 965.18 | 9.43  | 964.86   |
| BM <sub>3</sub>  | 0.20  | 953.88 | 11.50 | 953.68   |
| BM <sub>4</sub>  | 0.62  | 942.69 | 11.81 | 942.07   |
| BM <sub>5</sub>  | 0.95  | 934.01 | 9.63  | 933.06   |
| BM <sub>6</sub>  | 0.08  | 926.44 | 8.65  | 925.36   |
| BM <sub>7</sub>  | 2.55  | 916.36 | 11.63 | 913.81 ✓ |
| BM <sub>8</sub>  | 1.45  | 910.93 | 6.88  | 909.48 ✓ |
| BM <sub>9</sub>  | 3.50  | 911.96 | 2.47  | 908.46 ✓ |
| BM <sub>10</sub> | 0.19  | 908.45 | 3.70  | 908.26 ✓ |
| BM <sub>11</sub> | 6.15  | 908.53 | 6.07  | 902.38 ✓ |
| BM <sub>12</sub> | 3.68  | 911.93 | 0.28  | 908.25   |
| BM <sub>13</sub> | 2.59  | 911.04 | 3.48  | 908.45   |
| BM <sub>14</sub> | 7.15  | 916.62 | 1.57  | 909.47   |
| BM <sub>15</sub> | 12.27 | 926.06 | 2.83  | 913.79   |
| BM <sub>16</sub> | 9.00  | 934.33 | 0.73  | 925.33   |
| BM <sub>17</sub> | 9.46  | 942.49 | 1.30  | 933.03   |
| BM <sub>18</sub> | 12.49 | 954.53 | 0.45  | 942.04   |
| BM <sub>19</sub> | 11.88 | 965.52 | 0.89  | 953.64   |

Top HYD IN FRONT YARD R.C. NURSING HOME

SPIKE IN P.P. LT H<sub>0</sub> 1761

Top S.E. COR BOTTOM STEP 1739

Top HYD SW COR FROST + FLANDRAU

SPIKE GUIDE POLE LT H<sub>0</sub> 1931

SPIKE TRANSFORMER POLE RT H<sub>0</sub> 1695

N.W. COR RETRAINING WALL H<sub>0</sub> 1684

Top HYD N.W. COR FROST + KENNARD

Top HYD N.W. COR FROST + ROSEWOOD

Top HYD N.W. COR FROST + PROSPERITY

Top HYD N.W. COR FROST + HAZELWOOD

+

 $\pi$ 

-

ELEV.

BM 2

9.48

974.30

0.76

964.82

BM, 1

0.84

973.96

973.50

ML  
DS  
DK

Cloudy 55°

OCT 5, 81 6

# TOPOGRAPHY

FROST AVE

300± WEST OF BIRMINGHAM

TO HAZELWOOD AVE



LT

E

RT

+50

+49 BE

22

45

+100 SW

28-31

+100 R<sub>0</sub>

20

+100 CONC

10

+100 CONC

10

+100 R<sub>0</sub>

21

+22

3" PINE

55

+34 15" C.W.

+105 15" C.W.

41

+105 NE COR NO

58

+75 MN

18

+78 20" ASH

41

+73 NW COR NO

58

+61 4" ASH

42

+50

+38 B&amp;G CONC

28-34

+21 MN

18

+46

FLOWER BED (3'R)

55

+31 2" PINE

58

+38 B618 C+G

34-109

+22 PP

27

+26 BUSH

37

+28 9" COTTONWOOD

50

+11 PP

+12 B618 C+G

34

+19 FLAGSTONE WALL

28-67

67

+100 20" ELM

53

+105 GAR HEDGE

33

+12 4" 12" GRAV. ENT

33

+102 Pop IRON

33

44

53

+100 RD

20

+100 CONC

10

+100 CONC

10

+100 BE

21

+98 HOUSE FOUNDATION (BLOCK)

47-78

+85 SE COR NO

66

+78 B&amp;G HEDGE

33

+88 CTR CONC Steps 5'

29-47

+67 SW NO

+70 CONC S.W.

33

+68 END HEDGE

33

+74 HOUSE FOUNDATION (BLOCK)

47-78

+67 SW NO

+70 CONC S.W.

33

+68 END HEDGE

33

66

+63 15" PINE

41

+56 SE COR GAR

70

+63 18" ELM

51

+63 16" ELM

52

+50

+39 49' BIT ENT

+48 B&amp;G HEDGE

34

+39 SW COR GAR

70

+13 15" APPLE

71

+13 STUMP

54

+100 RD

10

+100 RD

10

+100 14" ELM

60

+22 BUSH

67

43

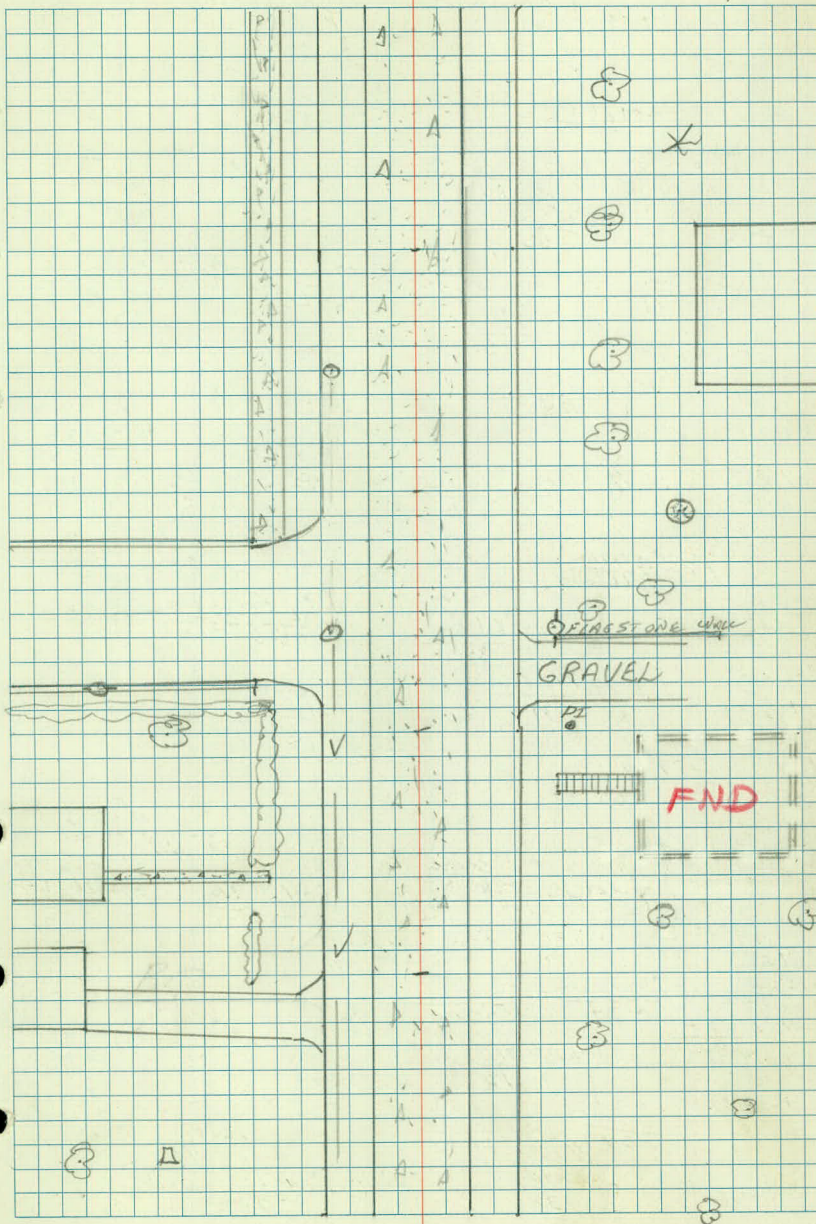
+100 RD

20

+100 RD

20





LT

E

Rt

48

+00 SW  
21-33+00 RD  
21+00 CONC  
10+00 CONC  
10+00 RD  
20

+87 EG CONC S.W.

+89 LIGHT POST  
65+90 COR WOOD FE  
65+57 CONC SW  
96-100+57 SW COR WING  
107

+50

+50 18' ELM  
63+30 END SIGN  
55+28 BUSH  
79+28 BUSH  
39+21 BEG SIGN  
55+49 PP  
28+49 PP  
75+04 CONC SW  
95-101+04 SE COR SCHOOL WING  
124+13 NW COR BLDG  
63

47

+00 SW  
27-33+00 RD  
27+00 CONC  
10+00 CONC  
10+00 RD  
21+86 12" PINE  
66+81 W30  
20+66 9' CONC SW  
34+75 5' CONC S.W.  
23 - 63+60 14' ELM  
39+51 PP  
27

+50

+49 14" PINE  
65+35 NW COR BLDG  
63+29 SW COR WING  
124+04 ER  
21+06 20" TWIN B.E.  
34

46

+00 SW  
28-34+00 RD  
28+00 CONC  
10+00 CONC  
10

+96 SW

100-106

+87 BG 18 C6  
34+87 BEG SW  
28-34+90 1/2 C.S.W.  
34+74 MN  
18+96 POR  
26+90 BR  
39+63 W30  
35+61 BG 18 C6  
34-109+61 END SW  
28-34+60 ER  
40+62 W30  
34

45+50

+53 MYD  
38+52 ARC LT  
27+56 POR  
26

8

0

0

#1426

APT 13105

WSO

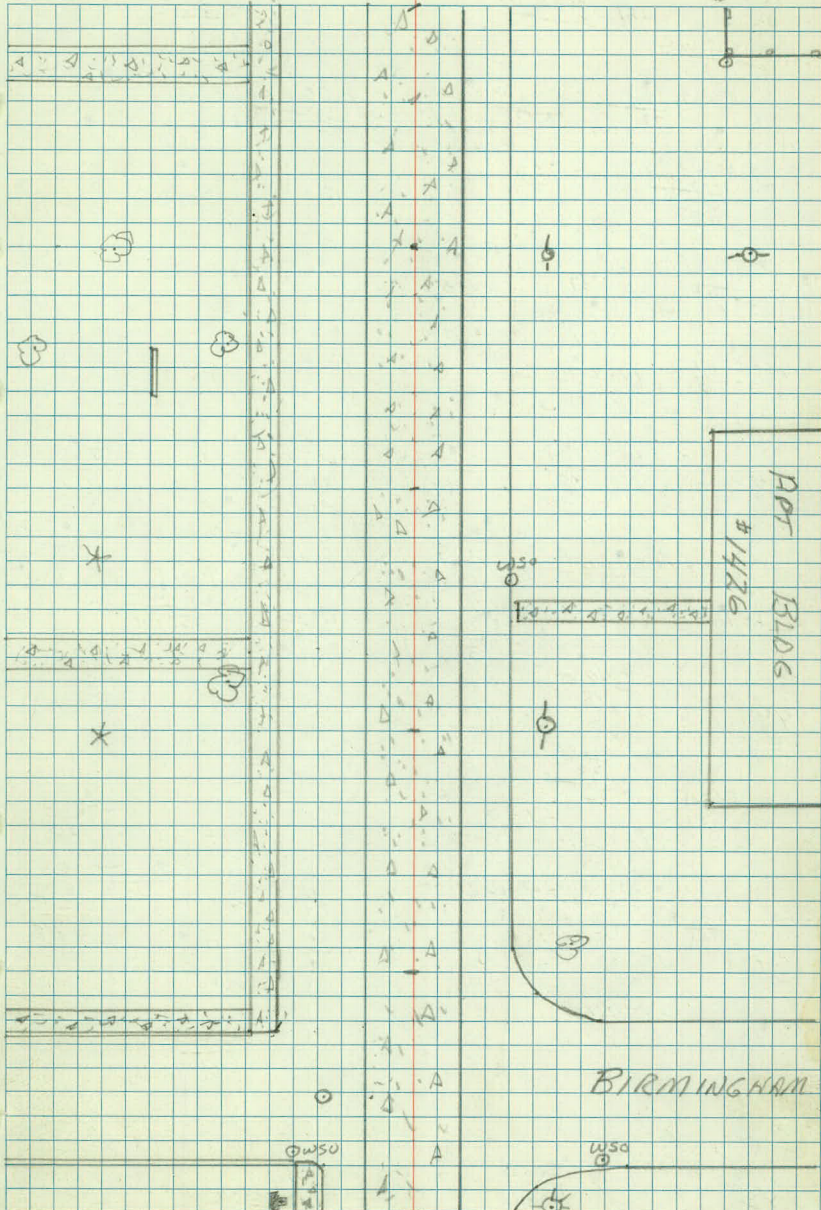
0

0

BIRMINGHAM

WSO

WSO

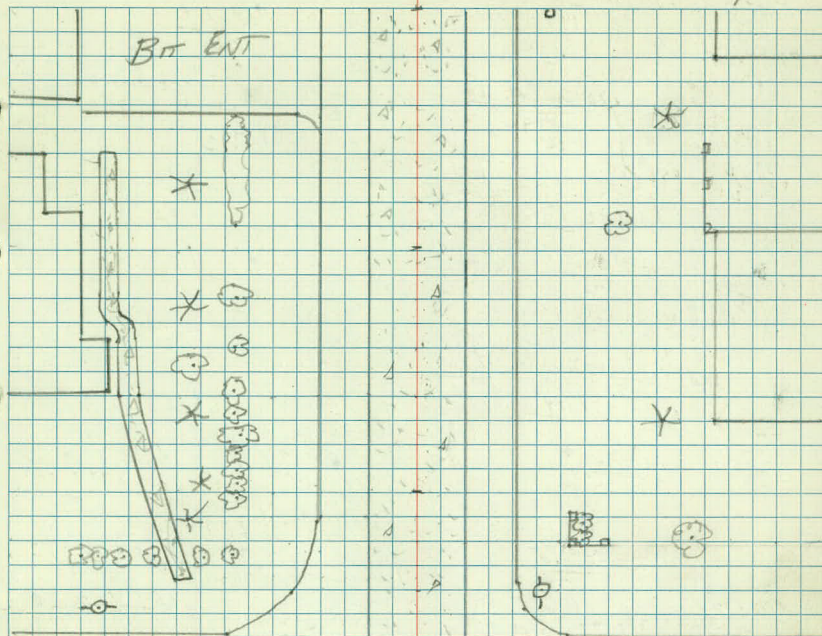








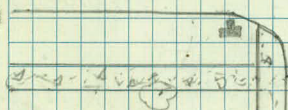
Bt ENT



MANTON

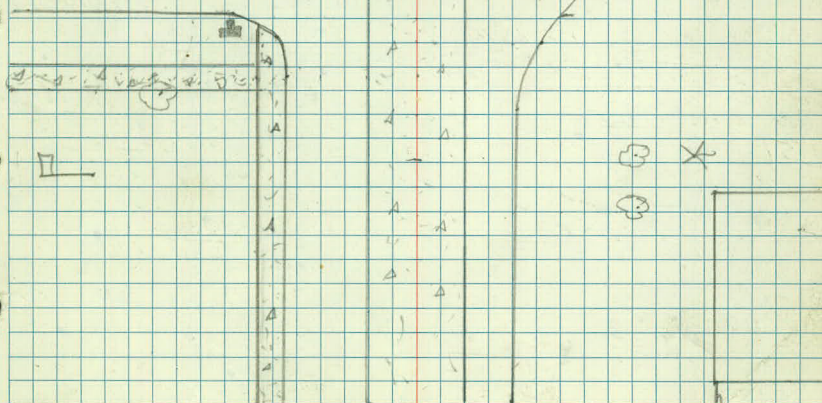
M.H.

W.S.O.



MANTON

W.S.O.



LT

F

R<sub>2</sub>

53

100 RO  
19  
+100 COR  
10

100 CONC  
10  
198  
100 RO  
21  
NW COR HO  
65

270 SW COR HO

+83 17" MAPLE  
56

92  
+64 BEG NEDGE

+59 ER  
21

+56 ER  
20  
+58 PP  
53

+52 POR  
23  
+51 CMP  
26

+56 ARC LIGAT  
29

+50  
+16 ER  
35

+47 BR  
31

+33 MH  
18

+47 BR  
33

+11 HMD  
35

+11 POR  
27

+07 COR NEDGE  
33

+07 15" CMP  
26

+21 W20  
34

+04 24" BE  
54

+04 BR  
20

+05 POR  
25

+14 ER  
38

+14 DIAT ENT  
38-50

52

+00 16" BR  
35

+99 BR  
21

+94 3" POP  
33

+89 4" POP  
33

+88 SE COR HO  
54

+88 9" MAPLE  
33

+87 4" POP  
33

+86 4" POP  
33

+74 BEG NEDGE  
33

+71 E3 CONC S.W.  
22

+69 NEGL N  
56

+78 BUSH  
33

+74 4" POP  
33

GRAVE  
177 ENT

+66 18" B.E  
35

+69 END NEDGE  
33

+66 COR FE (C-L)  
35-56

+63 2" POP  
33

+69 3" POP  
33

+56 4" POP  
33

150

+55 SW COR HO  
54

+50 3" POP  
33

+54 3" POP  
33

+14 TWIN 20" BE  
35

+10 BEG NEDGE  
33

+08 CMP  
26

+41 3" POP  
33

+40 15" ASH  
33

+27 STUMP  
54

+00 NE COR GAR  
63

51

+55 100 RO  
19

+00 CONC  
10

+00 CONC  
10

+00 RO  
22

+00 COR C-L FE  
35

+91 25" BIT ENT

+99 NW COR GAR  
63

+71 END FE (WOOD)  
23

+64 NEDGE  
35  
+64 S.D.  
26

+77 SW COR GAR  
55

+79 12" CMP  
28

+64 BEG WOOD FT  
63

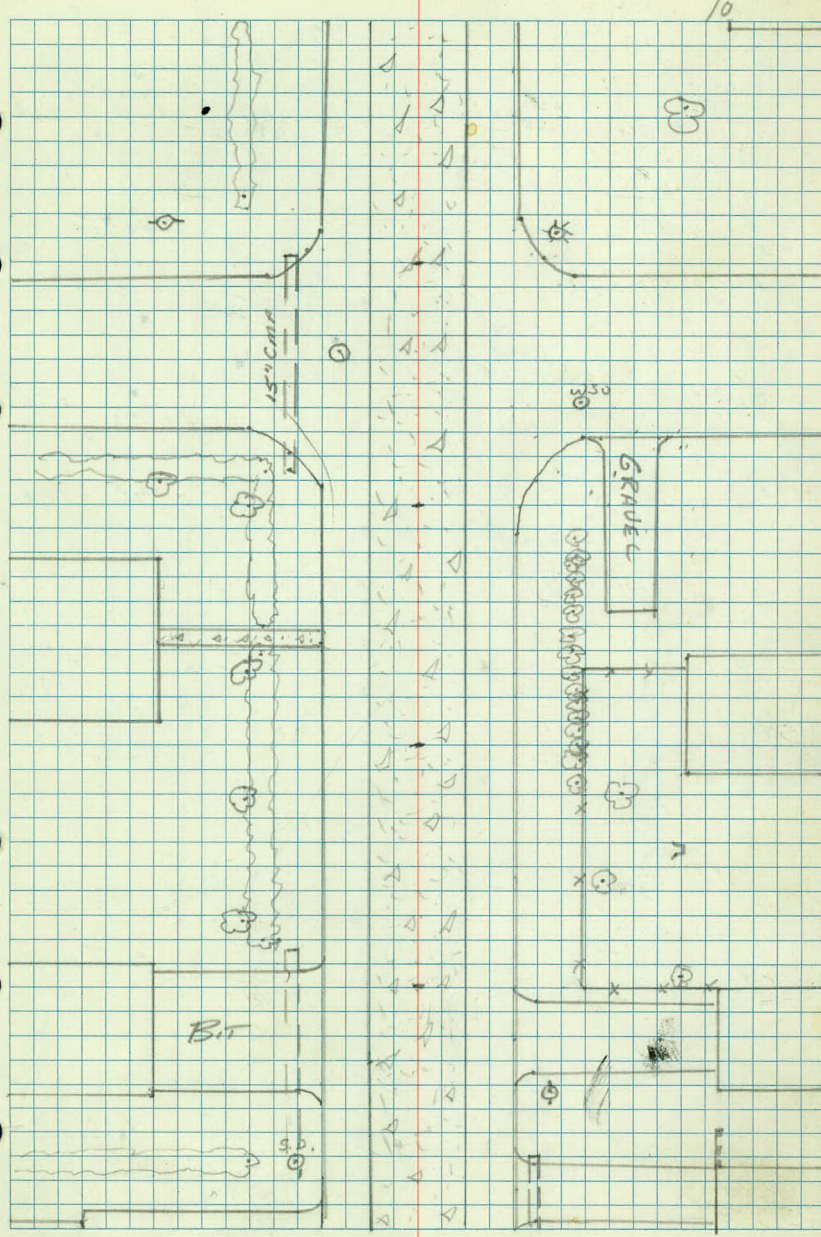
50+50

+50 SE COR GAR

+57 E12 BIT ENT

+64 NE COR GAR  
63

70





+50 +41 ER ✓  
 +42 MAP ✓ 36 ✓  
 +36 BR ✓ 21 ✓  
 +26 BEG HEDGE ✓ 37 ✓  
 +106 15" CMP ✓ 25 ✓  
 +100 E3' CONC SW ✓ 32 ✓  
 +98 1" CMP ✓ 25 ✓  
 +95 END FE (C-C) ✓ 54 ✓  
 +68 END HEDGE ✓ 25 ✓  
 +51 C-L RE ✓ 54 ✓  
 +50 ✓  
 +51 18" ELM ✓ 40 ✓  
 +49 BEG HEDGE ✓ 25 ✓  
 +46 (3) 5" ASH ✓ 25 ✓  
 +41 MN ✓ 18 ✓  
 +14 3" POP ✓ 29 ✓  
 +106 15" CMP ✓ 25 ✓  
 +100 RD ✓ 20 ✓  
 +94 E GRASS ENT ✓  
 +80 15" CMP ✓ 25 ✓  
 +78 BASH ✓ 37 ✓  
 +66 END HEDGE ✓  
 +50 ✓  
 +37 +66 12" ASH ✓ 37 ✓  
 +22 SE CORNO ✓ 92 ✓  
 +08 16" MAPLE ✓ 36 ✓

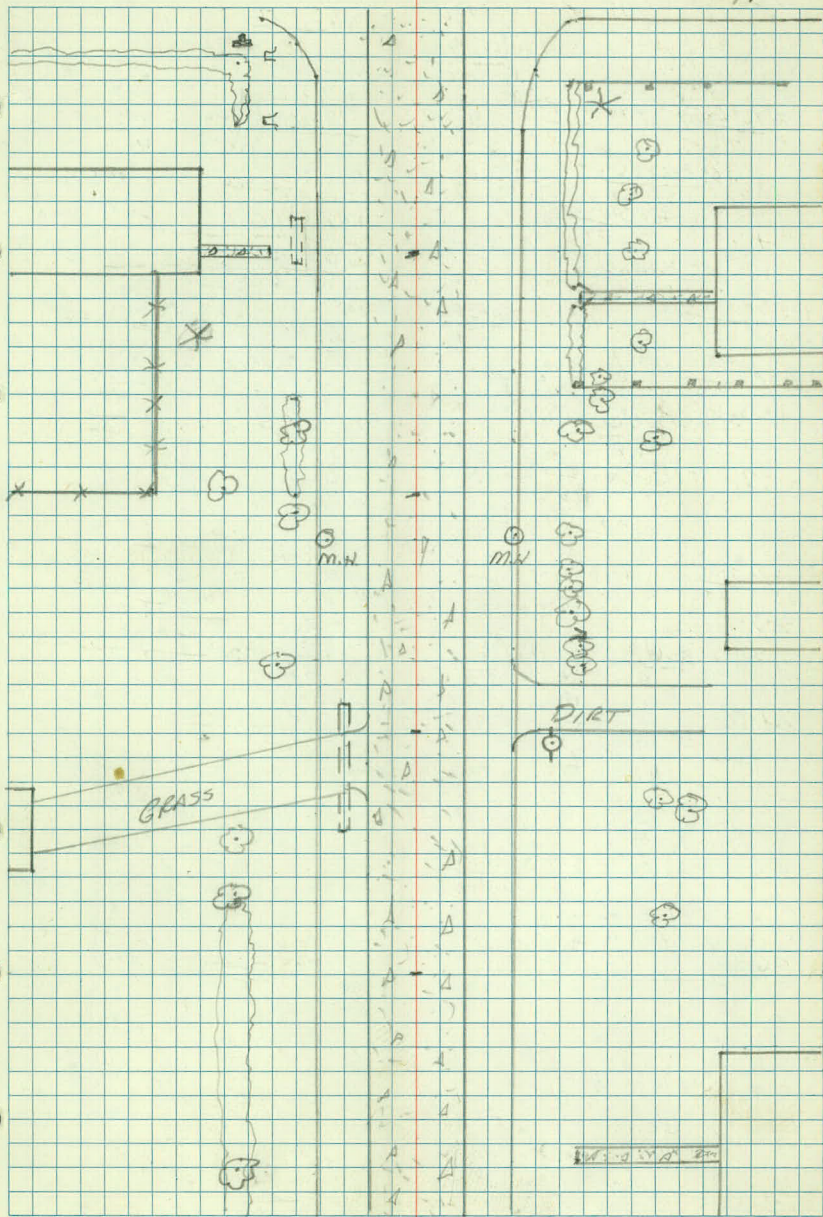
+40 STAMP ✓ 32 ✓  
 +42 FOR ✓ 25 ✓  
 +38 COL HEDGE ✓ 25 ✓  
 +32 STUMP ✓  
 +28 STUMP ✓  
 +32 ✓  
 +117 CORNO ✓ 45 ✓  
 +1503 ✓  
 +95 SW CORNO ✓ 45 ✓  
 +83 NW PINE ✓ 47 ✓  
 +63 18" ELM ✓ 24 ✓  
 +47 ✓

+41 ER ✓  
 +31 10" PINE ✓ 33 ✓  
 +21 2" MAPLE ✓ 48 ✓  
 +08 CONC ✓ 10 ✓  
 +93 BEG HEDGE ✓ 33 ✓  
 +1564 ✓  
 +77 NW CORNO ✓ 3 ✓  
 +81 GATE ✓ 36 ✓  
 +72 WOOD FE ✓ 33 ✓  
 +69 14" CW ✓ 39 ✓  
 +61 15" CW ✓ 50 ✓  
 +41 MN ✓ 21 ✓  
 +34 5" POP ✓ 33 ✓  
 +30 (3) 8" APP ✓ 33 ✓  
 +25 15" CW ✓ 33 ✓  
 +17 NW CORNO ✓ 65 ✓  
 +17 3" POP ✓ 34 ✓  
 +65 8" DIRECT ENT ✓ 35 ✓  
 +97 PP ✓  
 +80 10" ELM ✓ 52 ✓  
 +84 5" POP ✓ 58 ✓  
 +63 8" ASH ✓ 63 ✓

+35 END HEDGE ✓ 33 ✓  
 +35 WOOD ✓ 33 ✓  
 +35 COL RE ✓ 33 ✓  
 +26 BR ✓ 23 ✓  
 +13 4" MAPLE ✓ 45 ✓  
 +100 2" APPLE ✓ 46 ✓  
 +88 END HEDGE ✓  
 +74 BASH ✓ 38 ✓  
 +81 2" ✓ 46 ✓  
 +72 BEG HEDGE ✓ 33 ✓  
 +69 14" CW ✓ 39 ✓  
 +61 15" CW ✓ 50 ✓  
 +41 MN ✓ 21 ✓  
 +34 5" POP ✓ 33 ✓  
 +30 (3) 8" APP ✓ 33 ✓  
 +25 15" CW ✓ 33 ✓  
 +17 NW CORNO ✓ 65 ✓  
 +17 3" POP ✓ 34 ✓  
 +65 8" DIRECT ENT ✓ 35 ✓  
 +97 PP ✓  
 +80 10" ELM ✓ 52 ✓  
 +84 5" POP ✓ 58 ✓  
 +63 8" ASH ✓ 63 ✓

+34 NE CORNO ✓ 65 ✓  
 +11 E3' CONC SW ✓ 34 ✓





58

LT  
+100 RO  
18100 CONC  
10+100 CONC  
10+100 RO  
20

+80 22" MAPLE

+90 12" POST

+91 36" ASN

42

+160 15" MAPLE

52

+78 12" CEDAR

71

+78 10" PINE

56

+74 15" CMP

26

+60 8" MAPLE

33

+60 14" MAPLE

41

+69 COR FE (C-L) +60 21" CONC ENT

31-87

32

+59 COR FE C-L

31

+59 NE COR GAR

63

+50

87

+50 15" CMP

26

+49 2" A CONC ENT

31

+39 NW COR GAR

63

+31 PP

+25 6" CED.

56

+38 SE COR NO

89

+46 22" MAPLE

41

+29 COR FE

33-39

+23 BEG FE (WOOD) +24 6" PINE

33

46

+38 15" CMP

26

+29 16 BIT ENT

41

+18 NW COR GAR

63

+16 15" CMP

28

+18 15" CMP +20 COR C-L FE

26

33-84

+16 16" CONC ENT

35

+16 SW COR GAR

62

57

+100 8" RO

52

+100 RO

18

+100 CONC

10

+100 CONC

10

+80 RO

21

+80 MIN

17

+93 12" LOCUST

58

+75 17" MAPLE

58

+73 SW COR NO

84

+73 COR FE C-L

33-84

+82 END FE

35

+80 10" PINE

57

+72 END BRICK WALL

63

+50

+53 SE COR NO

84

+63 NE COR NO

63

+13 BEG BRICK WALL

63

+15 18" ELM

39

+05 SW COR NO

84

+07 2" CONC SW

31-84

56

+04 BEG FE

34

+24 NW COR NO

63

+98 ER

19

+98 12" BIRCH

74

+86 POR

27

+96 7" MAPLE

59

+96 ER

23

+86 POR

26

+89 ARC LT

30

+79 BR

39

+64 MIN

18

+81 BR

35

+81 BIT ENT

35-45

55+50

+51 WSO

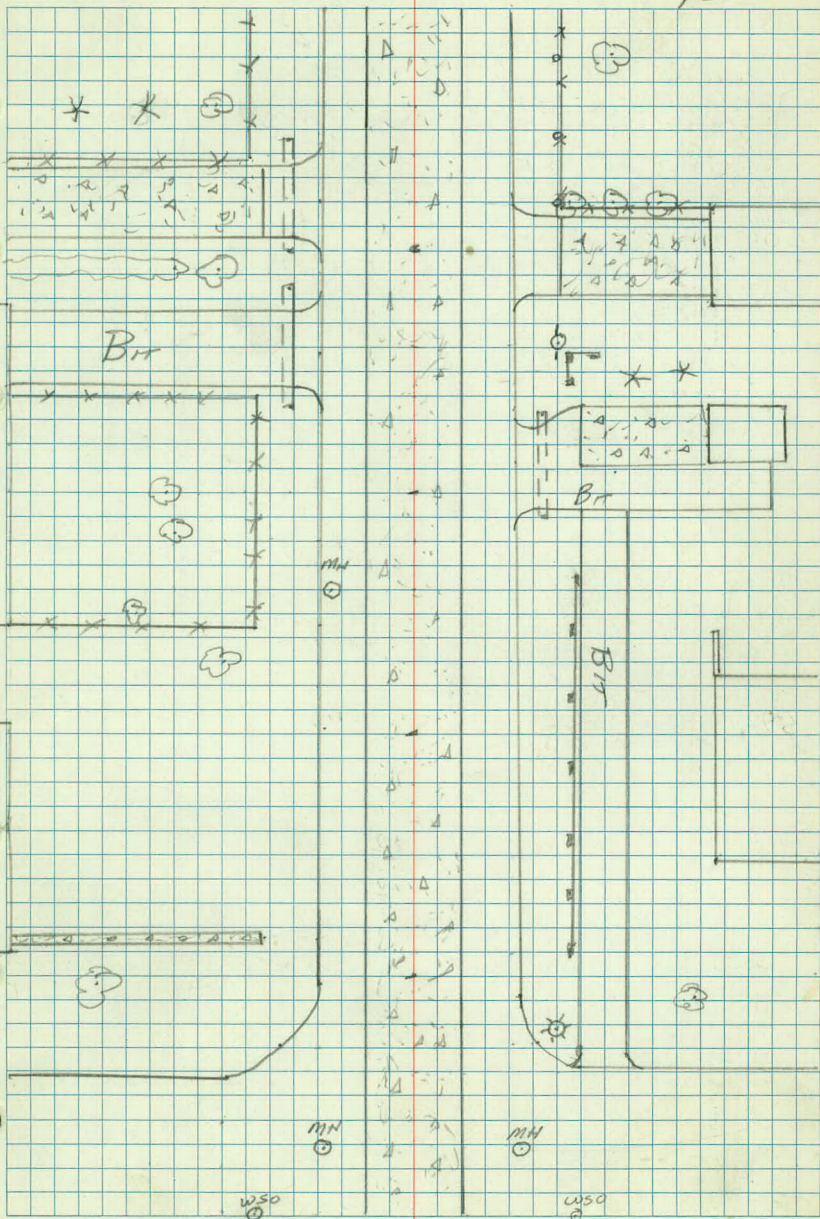
33

+50 WSO

34

+64 MIN

22





LT

Q

Rv



M.L.  
DS  
GA  
BW  
MR

DEC 28, 78  
Cloudy 28° 1

TOPOGRAPHY

FROST AVE

HAZELWOOD TO W.B.A

$R_T$ 

+50

$$\begin{array}{r} \times \\ +50 \text{ PARRING} \\ \hline 43 \end{array}$$

$$\begin{array}{r}
 +41 \text{ 15. Pole} \\
 \times \\
 \hline
 +40 \text{ 7" MAPLE} \\
 \times \\
 \hline
 59
 \end{array}$$

60+00

|                    |    |    |
|--------------------|----|----|
| +00 PARKING<br>LOT | RO | RO |
| <u>43</u>          | 24 | 21 |

X  
+92 4" ASH  
60

$$\begin{array}{r} \times \\ +76 \text{ COR SIGN} \\ \hline 42 \end{array}$$

$$\begin{array}{r} \times \\ +69 \text{ COR SIGN} \\ \hline 43 \end{array}$$

+50

+43 SWCOR PARKING LOT

$$\begin{array}{r}
 \times 43 \\
 + 35\ 10''\ \text{ELM} \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 \times \\
 + 28\ \text{PR} \\
 \hline
 24
 \end{array}$$

$$\begin{array}{r}
 \times \\
 + 33\ 15''\ \text{CMP} \\
 \hline
 27
 \end{array}
 \quad
 \begin{array}{r}
 \times 63 \\
 + 21\ 24''\ \text{RCP} \\
 \hline
 35
 \end{array}
 \quad
 \begin{array}{r}
 \times \\
 + 17\ \text{POR} \\
 \hline
 32
 \end{array}$$

$$\begin{array}{r}
 \times \\
 + 10\ \text{PR} \\
 \hline
 11
 \end{array}$$

Handwritten calculations on lined paper:

$$\begin{array}{r} +25 \text{ PD} \\ \underline{30} \\ +16 \text{ POR} \\ \underline{29} \\ +08 \text{ BR} \\ \underline{39} \end{array}$$

$$\begin{array}{r} +30 \text{ ER} \\ \underline{20} \\ +21 \text{ 24" RCP} \\ \underline{28} \end{array}$$

$$\begin{array}{r} +36.5" \text{ MAPLE} \\ \underline{65} \end{array}$$

59+00

|                     |                   |                 |               |
|---------------------|-------------------|-----------------|---------------|
| +72 FOR<br>24       | +81 ER<br>48      | +75 HYD<br>35   | +84 WSO<br>31 |
| +62 16" MAPLE<br>10 | +66 15" CMP<br>23 | +64 CORFEN<br>1 |               |
| +62 12" PINK<br>50  |                   |                 |               |

$$\begin{array}{r} 160 \text{ BR} \\ \underline{19} \\ 179 \end{array}$$

50  
+60 TWIN 8 MAPLE  
42

X  
+57 BR  
18

+58 ENA 16N 32  
 +57 POST 37 +473 32  
 +40 3" 32  
 +46 POST 32

+50

$$\begin{array}{r} 134 \text{ C.A. TREE} \\ 60 \\ \hline X 40840^{\circ} 1533 \\ 29 \end{array}$$

$+40$  3" ADLAR  $\times$  32  
 $\times$  33  
 $+35$  5" PP  $\times$  31  
 $\times$  34  
 $+33$  4" PINK  $\times$  31  
 $\times$  35  
 $+31$  COR FEN  $\times$  32-35  
 $\times$  31  
 $+106$  FEN  $\times$  32-47  
 $\times$  31  
 $+106$  HO  $\times$  35

58 + 00

$$\begin{array}{r} 100 \text{ 8" PINE} \times \\ 42 \text{ 100 FEN} \times \\ \hline 33 \end{array}$$

|    |    |
|----|----|
| R0 | R0 |
| 18 | 19 |

$$\begin{array}{r} 4x \\ + 00 \text{ FEN} \\ \hline 32 \end{array}$$

PARKING LOT  
(B.D.)

24" RCP X 63'

15" CONCRETE

WSO

H.O.

C.L.



63+00

LT  
+96 POR 35  
+96 HYD 41  
+80 4" CGD 56  
+79 BR 29  
+76 SIGN 62  
+58  
+69 4" CEDAR 62

RT  
+100 POR 30  
+73 BR 22  
+63 10" FLM 54  
+61 FE 62  
+59 BR GR 28  
+53 FE 70  
+79 COR RS 37  
+71 COR RS 37  
+79 COR RS 71.65  
+61 BACKSTOP 67

+50

+31 REWALL 41-47  
+21 PP 31  
+21 PP 37  
+16 SCORE BOARD 43  
+12 REWALL 41-47  
+12 FE 62  
+41 LT POLE 55  
+27 SCORE BOARD 45  
+12 FE 69

62+00

RD RD +00 GR 20  
+95 2" MAPLE 51  
+72 END PARKING LOT 43  
+59 ENT 25'

+75 GR 28

+50

+51 18" COTTONWOOD 58  
+40 RAIL 30  
+40 LT POLE 61

+21 M.H 17

61+00

+00 PARKING LOT 43  
RD RD 24 22

+96 20" MAPLE 60

+70 PP 32

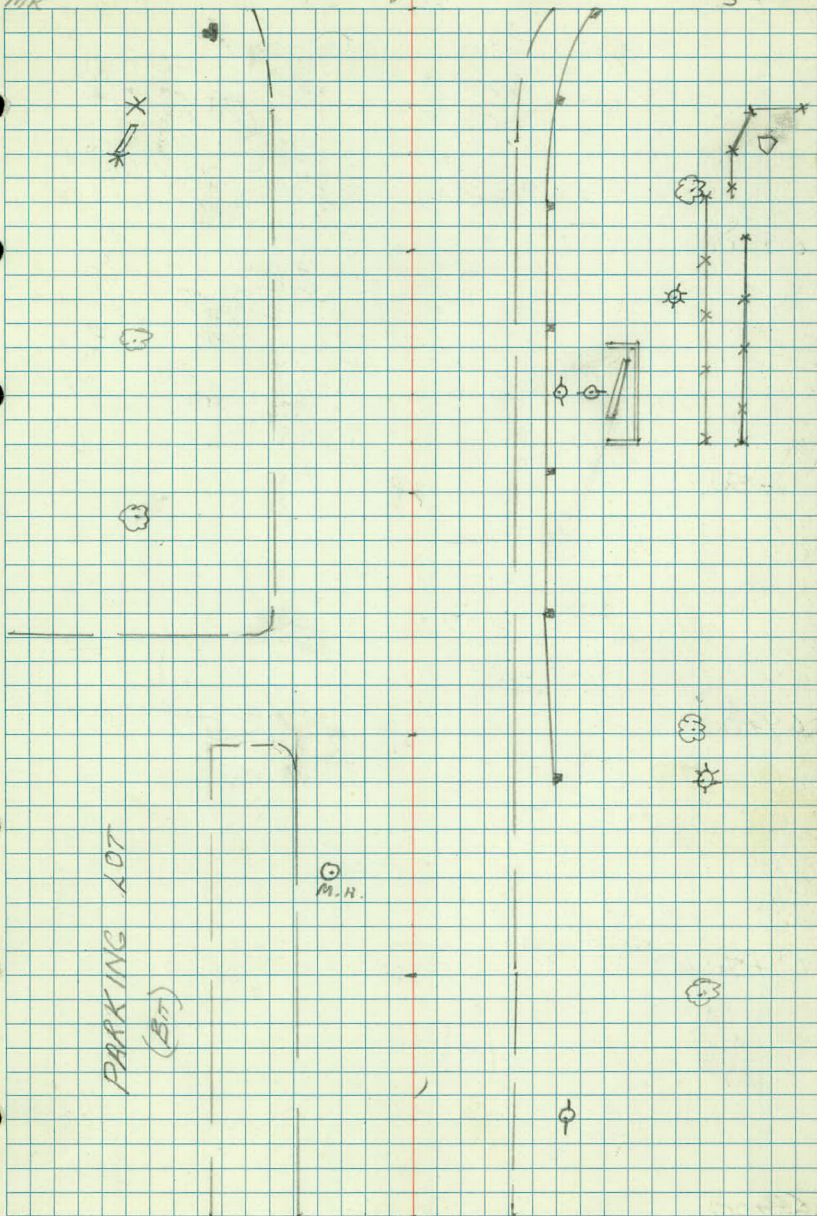
60+50

RD RD 24 21



4

W



LT

Rt

+50

+454 CONL DR 11'

R0 23 R0 22

+42 12" MAP 30 +46 16" ELM 48

X +46 14" ELM 71

+40 FE (C.L.) 43

+31 8" PINE 68

+34 12" CYP 30

+29 20" ELM 46

+20 4" MAPLE 90

+15 22" POP 43

+15 8" MAP 58

65+00

1597 X  
+98 SW COR HO 110

+95 20" ELM 95

+92 12" MAP 44

R0 23 R0 22

+00 PP 29

+02 28" POP 43

+90 26" POPLAR 42

+78 16" ELM 69

+74 PP 28

+76 ARBA 42

+50

+48 SE COR HO 113

+46 10" MAPLE 68

+41 HO NE 74

+28 SW COR HO 95

+27 PINE 83

+21 SCHUB 48

+31 10" APPLE 52

+08 NW COR HO 113

+06 1" MAPLE 71

+03 ER 23

+17 HO NW COR 78

64+00

+96

+96 1" MAPLE 70

+89 4" MAPLE 86

R0 22

+00 2" PINE 57

+82 ER 22

+63 POR 30

+74 PP 30

+50

+61 POR 38

+47 BR 67

+60 M.H. 17

+53 BR 46

+24 WSO 34

+21 WSO 39

+11 ER 51

+25 ER 76

+22 WSO 45

+12 POR 44

+20 ER 76-140

+12 GR POR 49

63+00

+01 WSO 23





LT

RT

+65 CR

68+00

+81 ER 38  
+75 POR 25  
+69 HYO 40  
+56 12" BIRCH 81  
+50  
+95 M.H. 17  
+75 18" CMP 28  
+66 BR 23  
+55 CB 22  
+55 6" BIRCH 63  
+55 6" BIRCH 53  
+61 8" ELM 54  
+69 APPLE 30  
+69 6" PINE 66  
+66 BR 22  
+51 BUSH 67  
+84 FR 47  
+75 POR 25  
+65 CB 26

67+00

+35 BUSH 89  
+31 5" BIRCH 51  
+14 9" BIRCH 49  
+1615  
+92 SW COR HO 123  
+63 12" CMP 31 1603  
+62 SE COR HO 117  
+50  
+85 14" BIRCH 60  
+66 8" BIRCH 48  
+63 PP 29  
+53 6" GRAVEL OR 13'  
+46 BUSH 68  
+29 DR BIT 71-84  
+29 NE COR HO 68  
+92 NW COR HO 65  
+94 12" ASH 45  
+78 30" WILLOW 58  
+55 6" BIRCH 69  
+55 TWIG 1" BIRCH 43  
+50 END COR FE 44

66+00

+39 BUSH 50  
+34 1" PINE 50  
+44 12" CMP 31  
+39 TWIG 6" BIRCH 46  
+34 SENSUB 43  
+22 16" APPLE 90  
+1603  
+94 SW COR HO 117  
+46 PP 30  
+14 20" ELM 47  
+101 FE COR 44-75  
+36 17" ELM 47  
+1604  
+15 NE COR HO 75

65+50

+76 M.H. 17  
+60 15" ELM 64  
+54 CMP 12" 30  
+75 20" ELM 46  
+68 S.W. 65-69  
+69 FE 44  
+69 12" CMP 30  
+57 6" BIT OR 17'  
+81 NW COR HO 75  
+1604  
+75  
+69 FE 44  
+69 12" CMP 30



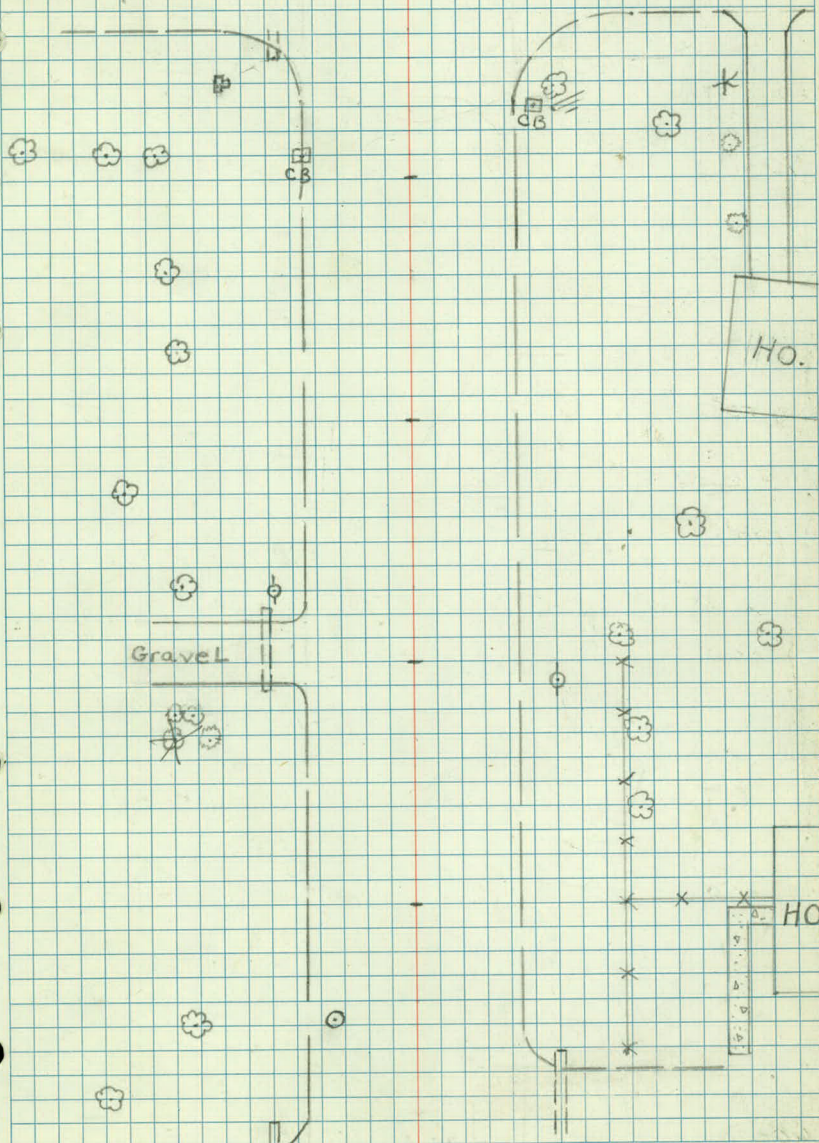
ML  
DS  
RC  
BW  
MR

JAN 4, 79  
SUNNY - 8° (-33°)  
5 WC

MARY KNOLL

MH

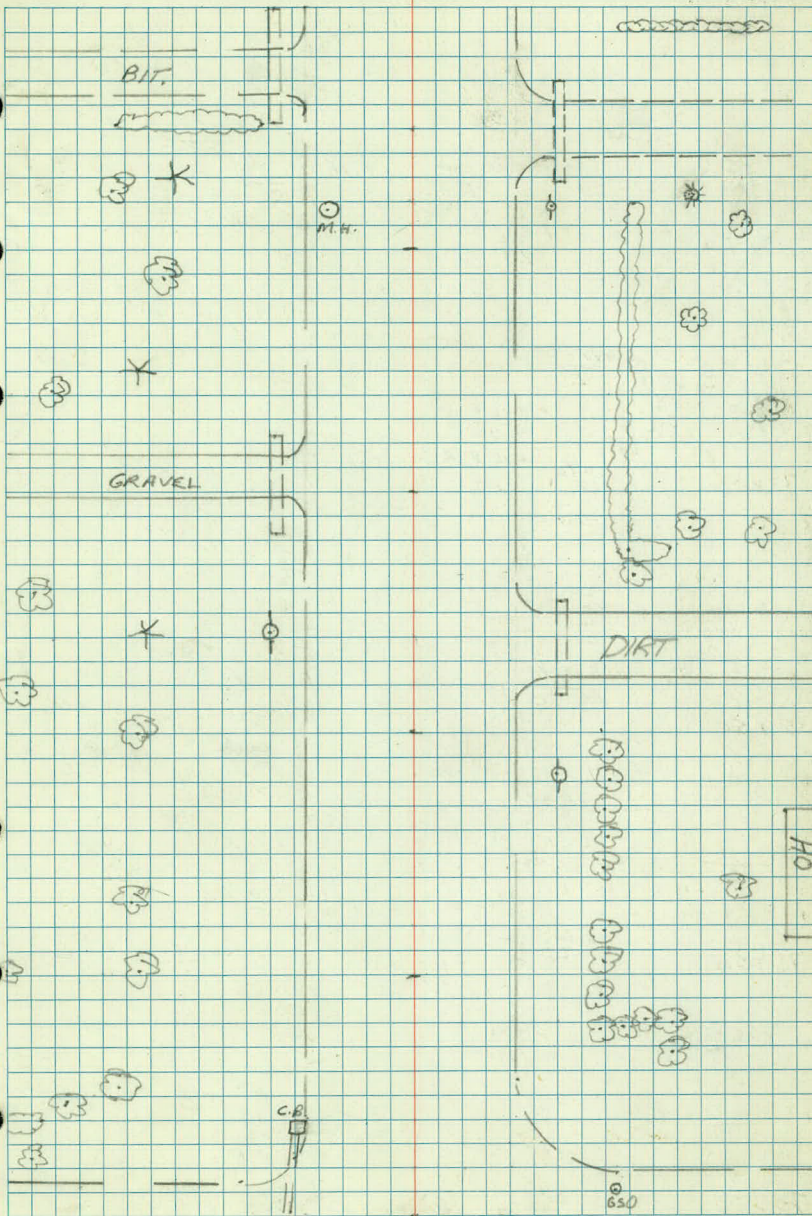
Ave.





E

6





73+00

178 C.B.

24

+87 18" COTTON

69

+81 15" COTTON

67

+50

+57 ER

23

+38 BR

46

+44 POR

27

+12 ER

59

+25 M.H.

17

+05 POR

25

+00 M.H.

46

+97 BR

23

72+00

RD RD  
23 22

+76 M.H.

26

+67 M.H.

24

+64 18" C.M.P.

32

+16 53

+57 SECUR HO

98

+63 12" PINE

52

+50

+28 18" ELM

65

+23 8" PINE

43

+13 6" PINE

86

+10 PP

30

+07 BUSH

44

71+00

RD RD  
21 22

+92 12" CEDAR

52

+79 SE COR HO

97

+56 32" ELM

53

+56 8" CEDAR

78

70+50

RD RD  
23 22

RD RD  
23 21

RD RD  
21 21

BEG X  
46

+92 18" ELM

45

+72 12" ELM

44

BEG X  
46

+66 SPURWAY

23-32

+56 20" COTTON

51

+70 C.B.

24

+55 ER

22

+50 DRIVE

53-65

+50 PP

29

+47 POR

24

+38 EL

44

+10 ER

56

+00 POR

30

+87 BR

22

+56 DITCH

67

+56 E.B.

98



KENNAK

MH  
©

Spillway

11/24/11

17

 $D_1 TCH$

Lt

Rt

150

X

+44 18" ELM  
33

+37 CONC DR  
77-87

X  
147 END HED  
37

X  
+17 14" ELM  
72

X  
+13 12" ELM  
33

X  
+31 2" MAPLE  
66

+26 FLAG POLE  
54

+06 CONC DR  
118

+05 24" CMP  
29

X  
+01 NECOR  
TURN SLOT  
40

75+00

X  
+97 TWIN 8" ELM  
33

+95 BEG HED  
36

X  
+83 S.W.  
67-71

+83 4" CONC DR 12"  
33

X  
+83 NECOR 140  
75

X  
+71 24" CMP  
30

+75 LT  
46  
+59 S.W.  
67-75

+50

X  
+40 10" PINE  
58

X  
+29 NW COR HO  
75

+09 RET. WALL  
43

X  
+15 SWP WALL  
41

X  
+15 SPILLWAY  
36

+06 PP  
20

+07 PP  
64

74+00

X  
+21(4) 5" ELM  
78

Ro Ro  
23 21

+01 BUSHES  
27

X  
+01 16" COTTON  
49

X  
+77 22" ELM  
72

+66 10" ELM  
66

X  
+76 18" ELM  
36

+54 BEG DITCH  
116

+54 SYMARCH REP 57 13" ELM  
34

X  
+76 12" PINE  
49

X  
+88 TWIN 9" ASP  
47

+50

X  
+51 6" ELM  
41

X  
+59 NECOR  
GARAGE  
50

X  
+47 14" ELM  
34

X  
+21 QUAD 5" ELM  
44

X  
+23 10" ELM  
38

X  
+37 NW COR  
GARAGE  
53

X  
+28 NECOR NO  
75

X  
+07 10" ELM  
56

73+00

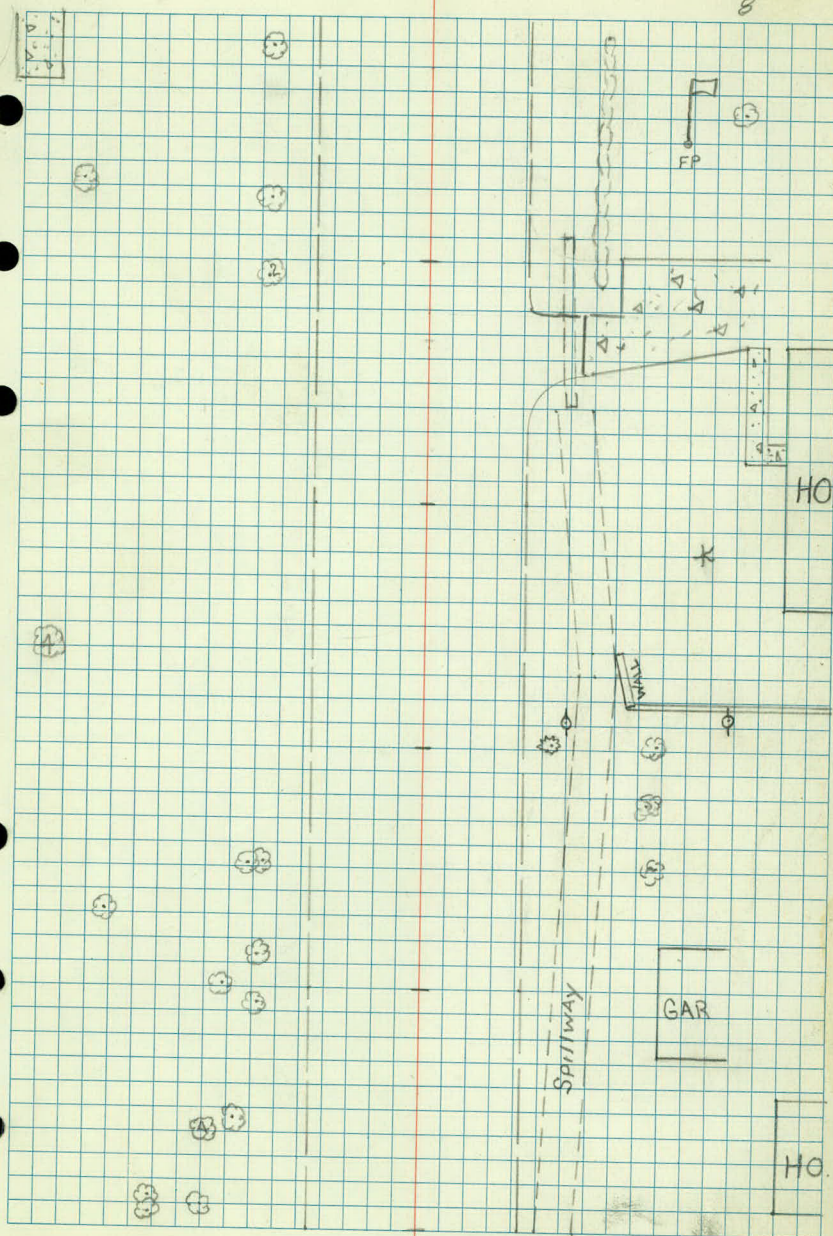
X  
+06 10" ELM  
45

Ro Ro +00 SPILLWAY  
23 21 25-33

+03 8" ELM  
56

X  
+05 NW COR NO  
75



[illegible]



✓

✓  
225

4

~~AA~~

4

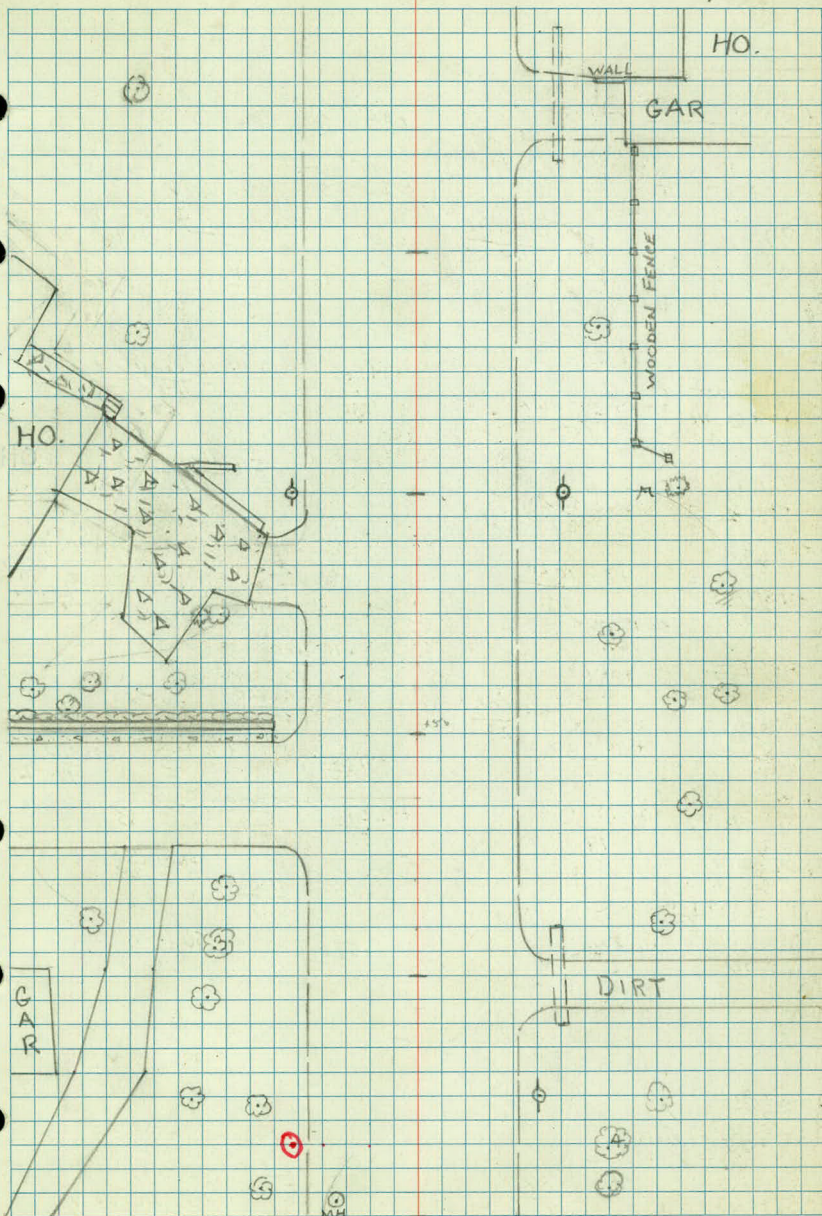
24

2

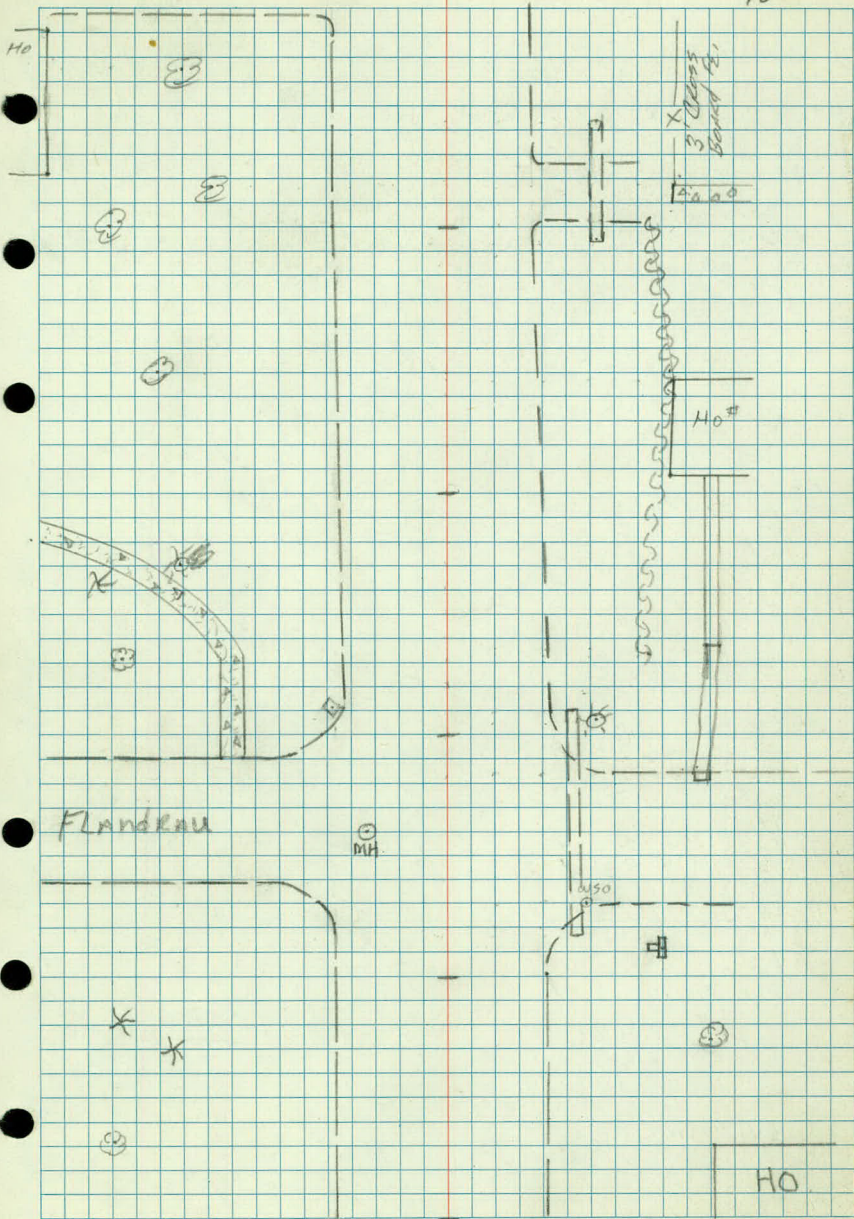
4500

40











LT

RT

83+00

+93 <sup>ASH</sup> 60

RO 24 35

+90 WOOD FE 44 →

+98 S.W. COR HO 1751

+86 BIT CURB 35

+89 24" ELM 78

+70 16" MAPLE 50

188 HEDGE 40 →

+60 14" PINE 74

168 S.E. COR HO 1751

+68 H.W. COR HO 93

+50

+146 BE S.W. 44

144 POR S.W. 52

+54 DE BIT CURB 33

+54 DE BIT WALK 33-39

+33 S.W. COR HO 1751

135 6" MAPLE 47

+18 WOOD FE 50 →

125 GR DR 47

+44 16" CONC DR 33

104 S.E. COR HO 83

108 8" PINE 67

+26 H.W. 31

+29 15" H.W. 29

+09 HEDGE 55 →

+09 CYCLONE FE 55 →

+98 30" COIT 42

195 6" CEDAR 70

X

+68 S.W. COR HO 83

+59 36" COIT 44

+55 CIR WOOD FE 45 →

+50

+50 11" GR DR

+32 9' CONC DR 33

+41 HEDGE 34 →

+19 10" ASH 43

+20 S.E. COR HO 84

81+00

+86 S.W. COR HO 1739

+66 P.P. 31

+81 8" ASH 47

+00 WOOD FE 47

+79 BUSH 50

+81 TAP 12" ASH 59

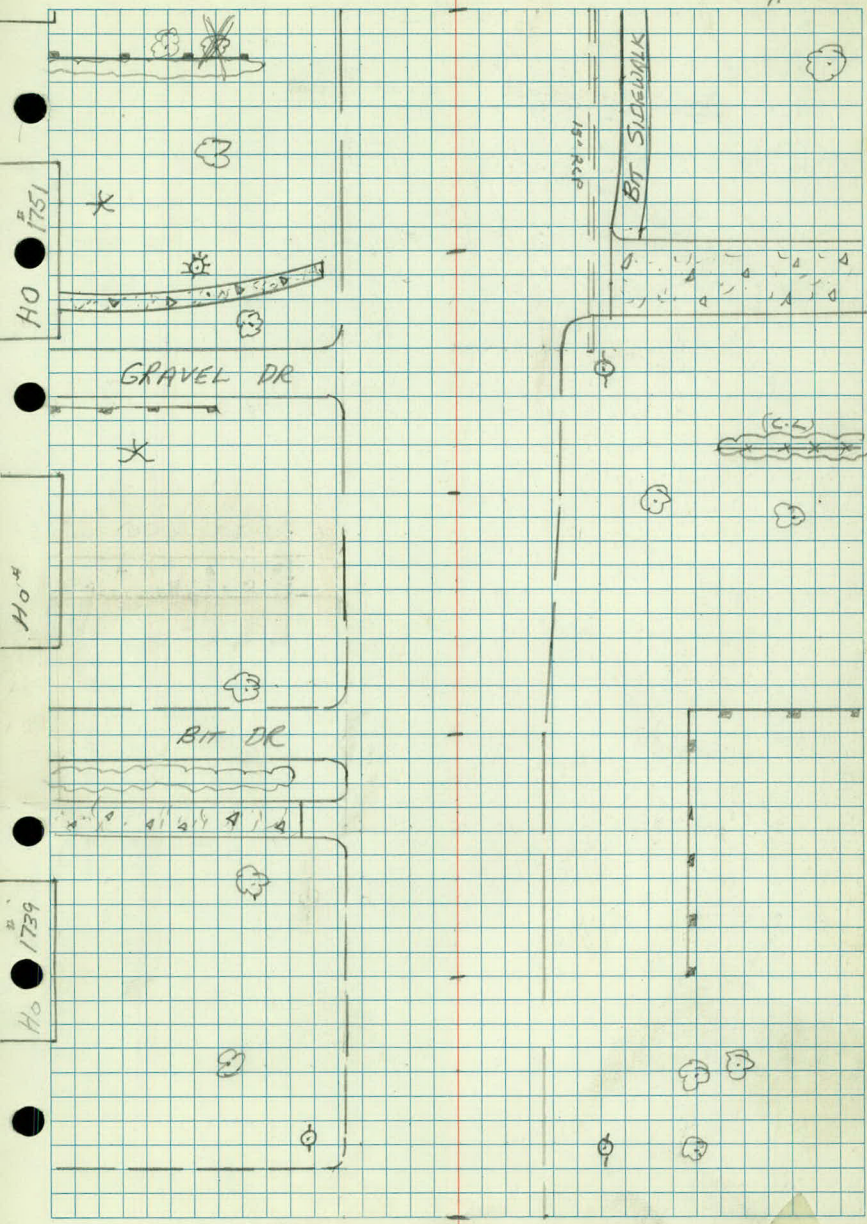
+54 11" GR DRIVE WAY

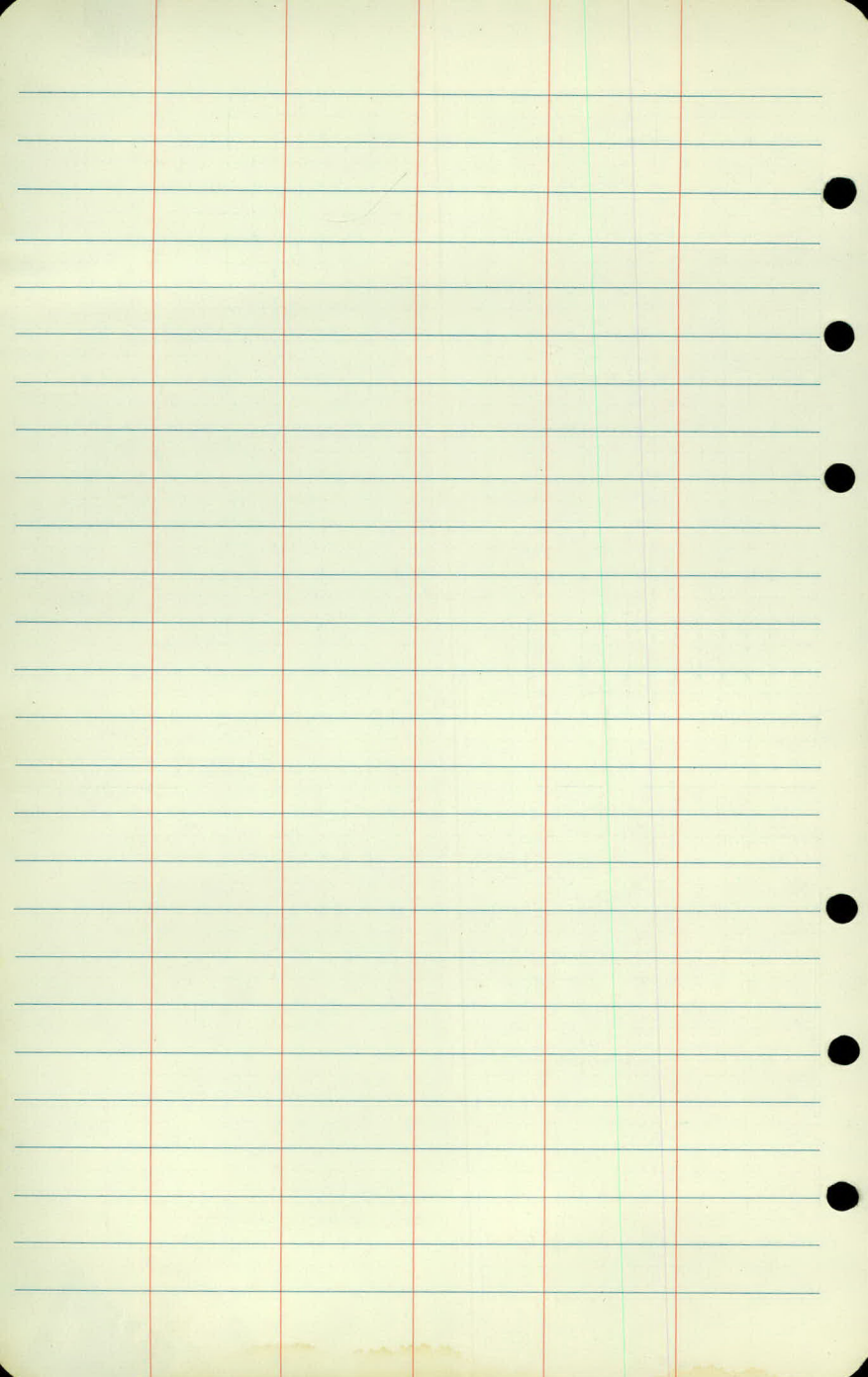
+64 P.P. 31

+64 BUSH 50

+50

RO 24 18









LT

RT

+50

x

✓

+44 NOSE

35

+44 TRAFFIC

LIGHT

50

+36 MEO

43

+40 MEO

29

+38 NOSE

27

+21 GSO

60

+20 WSO

26

+36 MEO

29

+29 M.H.

53

+11 ER

48

TRAFFIC SIGNAL

+40 POR

30

+01 SIGNAL

36

+01 CONTRA Bx

51

85+00

+38

+89 10" PINE

30

+89 8" PINE

69

+89 10" BIRCH

48

+89 12" PINE

49

+86 BEG

+86 BR

26

+80 M.H.

17

+80 12" PINE

49

+77 FLAG

69

+62 SE CORNO

87

+66 FE

70-87

+73 12" ELM

54

+50

+63 BUSH

57

+61 10" MAPLE

59

+52 3" MAPLE

55

+60 10" ELM

54

+67 18" ELM

54

+47 8" MAPLE

64

+37 FE

70

+42 16" ELM

54

+26 FE (WOOD)

66

+21 3" PINE

69

+29 12" BIRCH

39

+28 24" ELM

55

+27 NE CORNO

83

+03 SE CORN DR 20'

44

+20 YD LT

56

+00 BIT CURB

27

+14 BUSH

54

84+00

+92 SW HO

84

+99 M. W COR NO

94

+78 2" PIR DR

+85 14" MAPLE

63

+85 BUSH

61

+85 N.E COR GARAGE

83

+78 2" PIR DR

+84 10" PINE

79

+80 18" BOX ELDER

35

+81 BUSH

59

+64 M.W COR GARAGE

83

+70 6" PINE

62

+70 10" MAPLE

75

+70 12" PINE

50

+77 END WOOD FE

55

+81 END TAPER

27

+70 6" PINE

62

+70 10" MAPLE

75

+70 12" PINE

50

+67 COR WOOD FE

55

+75 BUSH

55

+60 SECOR HO

87

+64 PP

35

+58 P.P

32

+58 LILAC

58

+50

+53 8" BIT DR 20'

BT TAPER

+26 BIT CURB

35

+44 6" PINE

72

+26 6" PINE

61

+26 8" PINE

72

+19 COR WOOD FE

55

+20 6" PINE

61

+13 N.F COR HO

+27 8" BIRCH

58

83+00

93

+41 YD LT

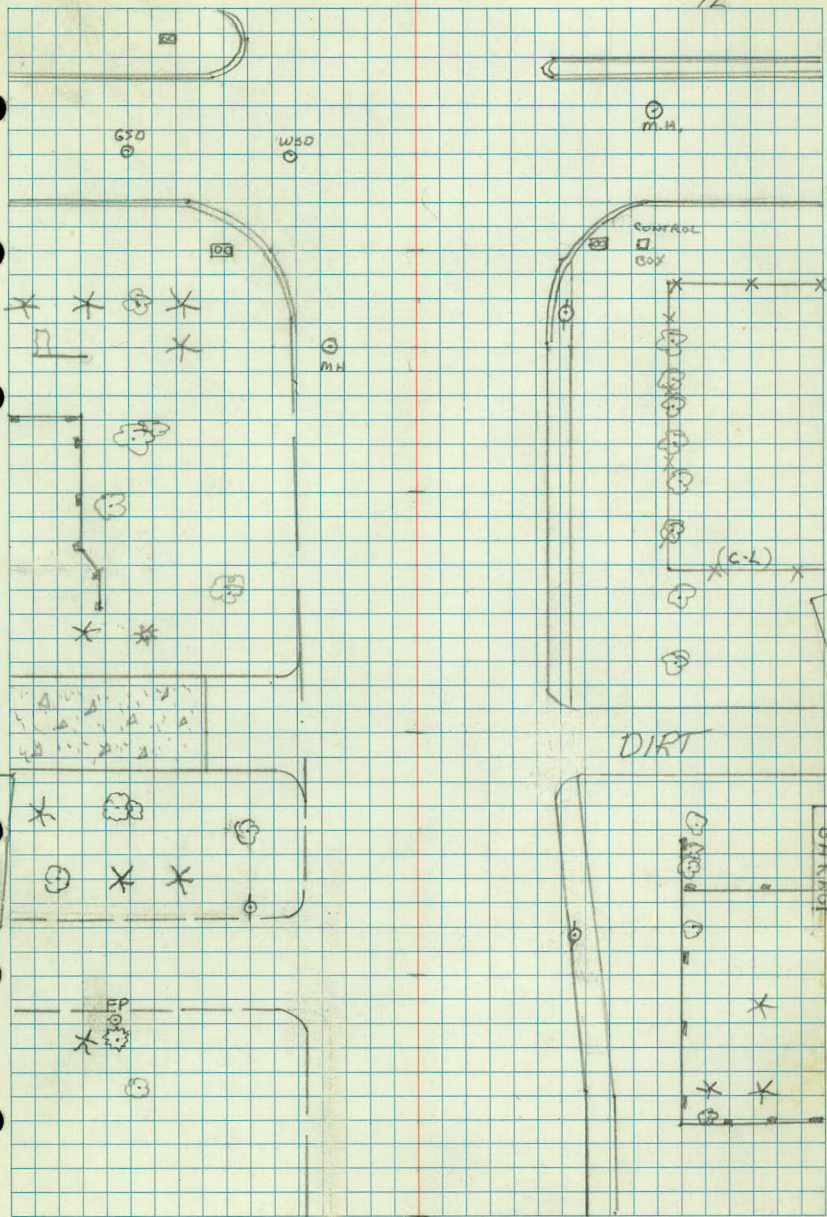
63

+37 BUSH

63

+37 8" PINE

69



761  
HO



LT

RT

STA

±

86+00

↓  
+84 SIGNAL  
45

✓  
+84 SIGNAL  
24

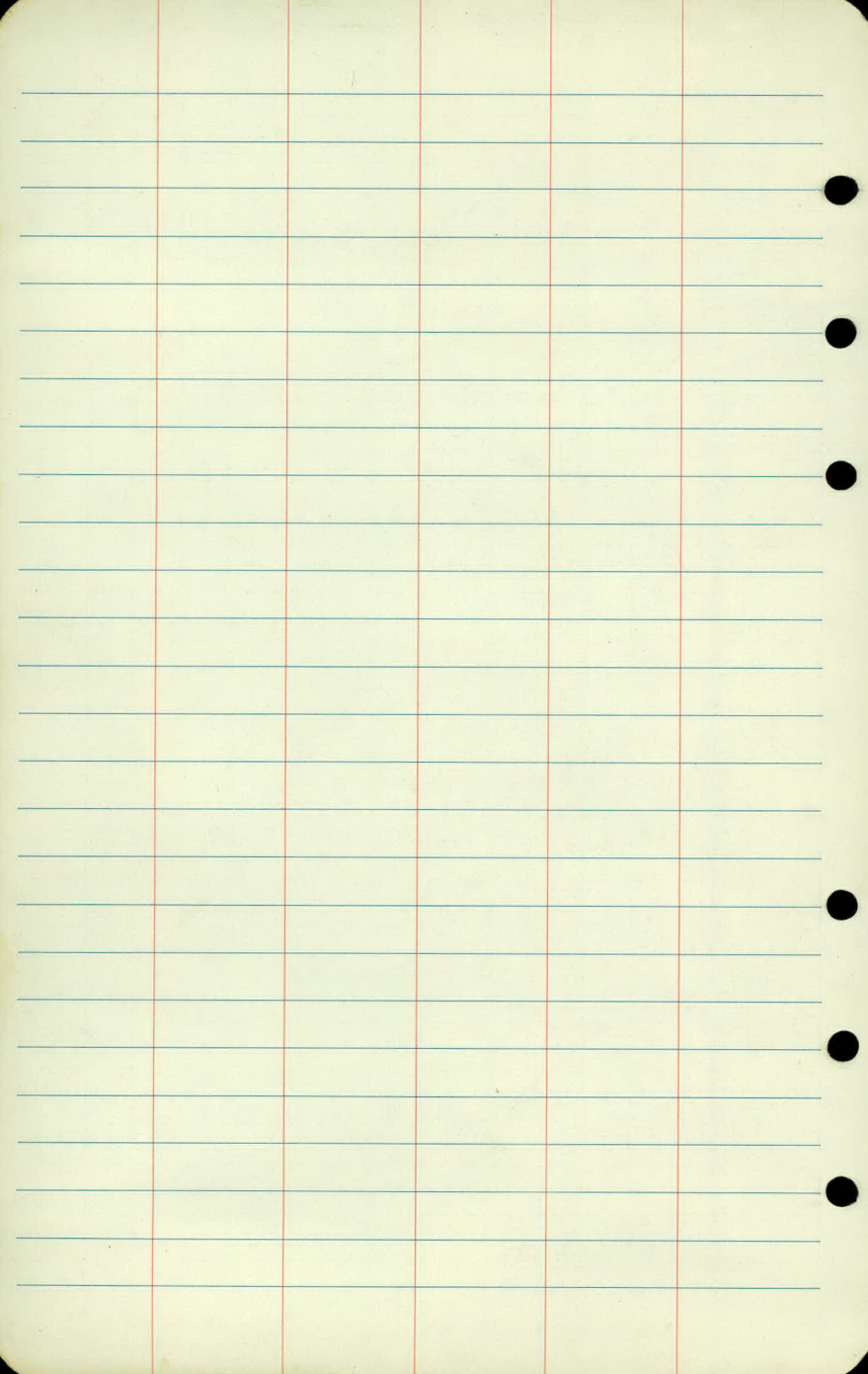
✓  
+81 PP  
34

✓  
+52 MED  
13

85+50

±78 EAST C+G W.B.A  
← 0 →

SEE STADIA NOTES  
ON FOLLOWING PAGES  
FOR ENT. R.C. NURSING  
HOME





WHITE BEAR AVENUE

Nursing Home Entrance

Stadiq

## STADIA SURVEY

| Sta                            | Azimuth          | Vert Angle<br>or Rod R | Horizontal<br>Distance |   |  |
|--------------------------------|------------------|------------------------|------------------------|---|--|
| Monument<br>B & White Bear Ave | $0^{\circ}00'$   |                        |                        |   |  |
| Gutter Line<br>median          | $0^{\circ}00'$   |                        | 45                     | ✓ |  |
| Curb<br>East Side WBA          | $30^{\circ}12'$  |                        | 51                     | ✓ |  |
| Signal                         | $35^{\circ}14'$  |                        | 53                     | ✓ |  |
| Flagstone<br>wall              | $36^{\circ}42'$  |                        | 54                     | ✓ |  |
| BR<br>B6-18                    | $41^{\circ}39'$  |                        | 38                     | ✓ |  |
| POR                            | $50^{\circ}10'$  |                        | 35                     | ✓ |  |
| ER                             | $70^{\circ}20'$  |                        | 42                     | ✓ |  |
| End Flagstone<br>wall          | $53^{\circ}08'$  |                        | 41                     | ✓ |  |
| 4" Maple                       | $59^{\circ}28'$  |                        | 57                     | ✓ |  |
| HH                             | $71^{\circ}19'$  |                        | 49                     | ✓ |  |
| BR                             | $77^{\circ}06'$  |                        | 62                     | ✓ |  |
| B6-18 C & G                    | $103^{\circ}33'$ |                        | 64                     | ✓ |  |
| Beg B6-18 C & G                | $114^{\circ}47'$ |                        | 36                     | ✓ |  |
| Con Bit & Walk<br>& Conc       | $122^{\circ}18'$ |                        | 30                     | ✓ |  |
| Beg Conc Curb                  | $130^{\circ}22'$ |                        | 33                     | ✓ |  |
| Conc Curb                      | $141^{\circ}47'$ |                        | 42                     | ✓ |  |
| HH                             | $125^{\circ}19'$ |                        | 33                     | ✓ |  |

Sta 85+51.44 SIGHTING MON. "B" & WBA

11L  
DS  
BW  
mR

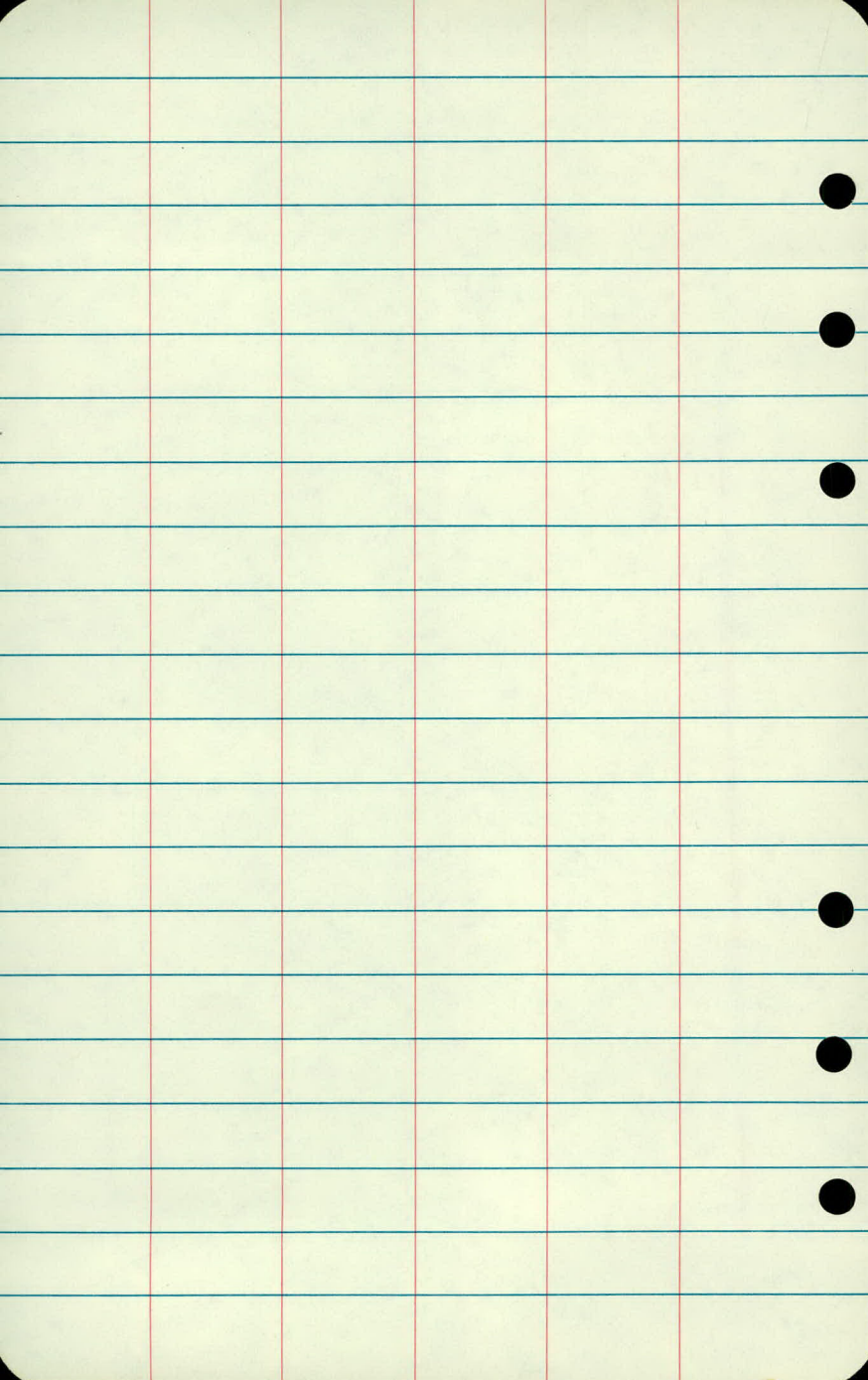
3-31-82  
PC 35°-40°



## STADIA SURVEY

| Sta         | Azimuth  | Vert. Angle<br>or Rod R | Horizontal<br>Distance |   |
|-------------|----------|-------------------------|------------------------|---|
| Signal      | 127° 24' |                         | 37                     | ✓ |
| PP          | 137° 44' |                         | 41                     | ✓ |
| Nose 4'     |          |                         |                        |   |
| Conc Median | 208° 29' |                         | 29                     | ✓ |

3-31-82  
PC 352-40'





ML  
DS  
DK

CLOUDY 500

OCT 9, 51

13

X- SECTIONS

FROST AVE

300'± WEST OF BIRMINGHAM

TO HAZELWOOD

REDUCED BY B.L.

| STA | +    | $\pi$  | - | ELEV   |
|-----|------|--------|---|--------|
|     | 6.12 | 913.56 |   | 907.44 |

43+00

✓

139 BIT ENT LT

44

112 GUTTER LINE BL18 & GRAVEL ENT

M.H

6.18 907.38

LT

E

RT

14

Top H<sub>90</sub> Frost + IDE

| 902.1 | 903.2 | 905.1 | 904.7 | 906.1 | 905.9 | 906.11 | 905.81 | 905.3 | 908.0 | 907.9 |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 11.5  | 10.4  | 8.5   | 8.9   | 7.5   | 7.7   | 7.45   | 7.95   | 8.3   | 5.6   | 5.7   |
| 54    | 44    | 34    | 29    | 23    | 20    |        | 19     | 28    | 34    | 75    |

900.3  
133  
75

| 906.66 | 906.7 | 906.3 | 906.63 | 906.6 | 906.5 | 910.2 | 910.0 |
|--------|-------|-------|--------|-------|-------|-------|-------|
| 6.90   | 6.9   | 7.3   | 6.93   | 7.0   | 7.1   | 3.4   | 3.6   |
| 66     | 44    | 20    | 20     | 28    | 37    | 75    |       |
| CONC   |       |       |        |       |       |       |       |
| SLAB   |       |       |        |       |       |       |       |

| 906.7 | 906.8 | 907.5 | 907.2 | 907.26 | 907.4 | 908.3 | 911.4 | 911.6 |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 6.9   | 6.8   | 6.1   | 6.4   | 6.30   | 6.2   | 5.3   | 2.2   | 2.0   |
| 75    | 52    | 31    | 20    | 20     | 29    | 37    | 75    |       |

| 906.96   | 907.41   | 907.78   | 907.3 | 907.38 | 907.6 | 908.7 | 910.7 | 910.8 |
|----------|----------|----------|-------|--------|-------|-------|-------|-------|
| 6.60     | 6.15     | 5.78     | 6.3   | 6.18   | 6.0   | 4.9   | 2.9   | 2.8   |
| 75       | 52       | 34       | 20    |        | 20    | 39    | 75    | 100   |
| CIRC     | CONC     | CONC     | CONC  |        |       |       |       |       |
| ENTRANCE | ENTRANCE | ENTRANCE |       |        |       |       |       |       |

44+21 LT18



STA

+

X

-

913.56

44+38

CUTTER LINE LT B6 18

M.H.

5.52

908.04

45

T.P.

2.16

914.31

1.40

912.16

(912.15)

+61

CUTTER CONC B618 LT

CUTTER BIRMINGHAM

+75

£ BIRMINGHAM

+86

CUTTER CONC B618 LT

CUTTER BIRMINGHAM

LT

?

£

RT

15

|        |        |        |       |        |       |       |       |       |
|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 907.08 | 907.60 | 908.12 | 907.6 | 907.72 | 907.6 | 906.8 | 910.1 | 910.9 |
| 6.48   | 5.96   | 5.44   | 6.0   | 5.84   | 6.0   | 6.8   | 3.5   | 2.7   |
| 75     | 55     | 34     | 26    |        | 20    | 28    | 36    | 75    |
| GUTTER | GUTTER | GUTTER |       |        |       |       |       |       |

44 + 75 LT 18

|       |       |        |       |        |       |       |       |       |
|-------|-------|--------|-------|--------|-------|-------|-------|-------|
| 908.5 | 908.9 | 908.97 | 908.3 | 908.41 | 908.0 | 907.4 | 909.3 | 909.9 |
| 5.1   | 4.7   | 4.59   | 5.3   | 5.15   | 5.6   | 6.2   | 4.3   | 3.7   |
| 75    | 50    | 28     | 19    |        | 21    | 28    | 35    | 58    |
|       |       | CONF   |       |        |       |       |       | NO    |
|       |       | S.W.   |       |        |       |       |       |       |

Top 45 + 50 LT

|        |        |        |       |        |       |       |       |
|--------|--------|--------|-------|--------|-------|-------|-------|
| 908.36 | 908.73 | 909.01 | 908.9 | 908.79 | 908.5 | 907.5 | 906.9 |
| 5.95   | 5.58   | 5.30   | 5.4   | 5.52   | 5.8   | 6.8   | 7.4   |
| 75     | 52     | 34     | 22    |        | 22    | 50    | 75    |
| GUTTER | GUTTER | GUTTER |       |        |       |       |       |

|       |       |       |        |       |       |       |
|-------|-------|-------|--------|-------|-------|-------|
| 908.2 | 909.0 | 909.0 | 908.84 | 908.7 | 907.5 | 906.7 |
| 6.1   | 5.3   | 5.3   | 5.47   | 5.6   | 6.8   | 7.6   |
| 100   | 52    | 18    |        | 22    | 60    | 100   |
|       |       | M.17  |        |       |       |       |

|        |        |        |        |        |       |       |       |
|--------|--------|--------|--------|--------|-------|-------|-------|
| 908.4  | 908.86 | 909.33 | 909.32 | 908.92 | 908.7 | 907.8 | 906.9 |
| 5.9    | 5.45   | 4.98   | 5.0    | 5.39   | 5.6   | 6.5   | 7.4   |
| 75     | 57     | 34     | 27     |        | 22    | 50    | 75    |
| GUTTER | GUTTER | GUTTER |        |        |       |       |       |

STA

+

$\pi$

-

914.31

46

+66

CONC S.W. LT

47

+50

+87

CONC SW LT

48

T.P.

2.08

913.55

2.86

911.45

(911.47)



LT

E

RT

16

908.5 909.5 909.64 909.4 ✓ 909.02 908.7 908.1 907.6

5.8 4.8 4.67 4.9 5.29 5.6 6.2 6.7

75 57 27 27 21 45 75

S.W.

909.31 909.47 908.94 908.8 ✓ 909.17 908.8 909.3 909.6

5.00 4.84 5.37 5.5 5.14 5.5 5.0 4.7

75 63 27 27 19 42 63

SW S.W.

909.5 909.6 908.86 908.7 ✓ 909.17 908.9 909.4 909.5

4.8 4.7 5.45 5.6 5.14 5.4 4.9 4.8

75 40 27 27 21 44 63

S.W.

909.3 909.2 908.79 908.5 ✓ 909.10 908.7 908.7 908.3

5.0 5.1 5.52 5.8 5.21 5.6 5.6 6.0

75 53 27 27 21 51 75

SW

909.23 909.01 908.72 908.5 ✓ 909.00 908.9 909.2 909.3

5.08 5.30 5.59 5.8 5.31 5.4 5.1 5.0

75 53 27 27 20 44 63

SW SW S.W. FE

909.4 909.2 908.76 908.5 ✓ 908.96 908.8 909.6 909.4

4.9 5.1 5.55 5.8 5.35 5.5 4.7 4.9

75 52 27 27 20 42 63

SW FE

Top H40 MANTON & KRIST

STA

+

 $\bar{A}$ 

-

ELEV

913.55

48+50

49+01

£ MANTON LT

M.H.

908.29 5.26

49+05

£ MANTON RT

+50

50

T.P

504

911.83

6.76

906.79

(906.79)

Li

E

Rt

17

|       |       |        |        |        |       |       |       |
|-------|-------|--------|--------|--------|-------|-------|-------|
| 909.3 | 909.2 | 908.56 | 908.31 | 908.74 | 908.5 | 909.5 | 909.7 |
| 4.3   | 4.4   | 4.99   | 5.3    | 4.81   | 5.1   | 4.1   | 3.9   |
| 75    | 55    | 37     | 27     |        | 19    | 39    | 63    |

|       |       |       |        |
|-------|-------|-------|--------|
| 909.3 | 908.8 | 908.3 | 908.24 |
| 4.3   | 4.8   | 5.3   | 5.31   |
| 100   | 66    | 35    |        |

49+03 4.18

|        |       |       |       |
|--------|-------|-------|-------|
| 908.24 | 908.5 | 908.2 | 908.0 |
| 5.31   | 5.1   | 5.4   | 5.6   |
| 21     | 50    | 100   |       |

|       |        |       |       |       |        |       |       |       |       |
|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
| 909.4 | 909.02 | 908.4 | 907.4 | 907.5 | 908.00 | 907.9 | 907.0 | 907.7 | 908.0 |
| 4.2   | 4.43   | 5.2   | 6.2   | 6.1   | 5.55   | 5.7   | 6.6   | 5.9   | 5.6   |
| 75    | 53     | 46    | 29    | 20    |        | 20    | 32    | 44    | 75    |

|       |        |       |       |       |        |       |       |       |       |
|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
| 910.2 | 909.99 | 907.8 | 906.3 | 907.0 | 907.48 | 907.2 | 906.4 | 907.2 | 907.3 |
| 3.4   | 3.56   | 5.8   | 7.3   | 6.6   | 6.07   | 6.4   | 7.2   | 6.4   | 6.3   |
| 70    | 4      | 37    | 27    | 20    |        | 20    | 32    | 46    | 63    |

SPIKE IN PP STR



STA

+

 $\pi$ 

-

911.83

50+40

L BIT ENT LT

+48

L.65 905.18

+57

L BIT ENT RT

+64

L.60 906.23

+91

L BIT ENT LT L BIT ENT RT

51

ML  
DS  
DK

Cloudy 46°  
OCT 12, 81

LT

✓

RT

18

|        |        |       |       |          |       |       |        |
|--------|--------|-------|-------|----------|-------|-------|--------|
| 908.60 | 907.98 | 907.3 | 906.7 | ✓ 907.17 | 906.7 | 906.0 | 905.99 |
| 3.25   | 3.85   | 4.5   | 5.1   | 4.66     | 5.1   | 5.8   | 5.84   |
| 70     | 61     | 44    | 19    |          | 21    | 34    | 63     |
| CONC   | CONC   |       |       |          |       |       | CONC   |

F.L. 12" CMP

|       |       |       |       |          |       |       |        |
|-------|-------|-------|-------|----------|-------|-------|--------|
| 907.1 | 906.8 | 906.4 | 906.6 | ✓ 907.03 | 906.6 | 906.0 | 905.82 |
| 4.7   | 5.0   | 5.4   | 5.2   | 4.80     | 5.2   | 5.8   | 6.01   |
| 75    | 60    | 31    | 19    |          | 20    | 44    | 63     |
|       |       |       |       |          |       |       | CONC   |

S.D. 50+64 LT

|        |       |       |        |       |       |       |        |
|--------|-------|-------|--------|-------|-------|-------|--------|
| 907.11 | 906.8 | 906.4 | 906.70 | 906.2 | 905.3 | 905.1 | 905.41 |
| 4.72   | 5.0   | 5.4   | 5.13   | 5.6   | 6.5   | 6.7   | 6.42   |
| 55     | 39    | 18    |        | 21    | 30    | 46    | 63     |
| CONC   |       |       |        |       |       |       | CONC   |

|        |       |       |        |       |       |       |        |
|--------|-------|-------|--------|-------|-------|-------|--------|
| 907.11 | 906.7 | 906.2 | 906.59 | 906.1 | 905.4 | 905.3 | 905.34 |
| 4.72   | 5.1   | 5.6   | 5.24   | 5.7   | 6.4   | 6.5   | 6.49   |
| 54     | 36    | 18    |        | 21    | 32    | 47    | 63     |
| CONC   |       |       |        |       |       |       | CONC   |

STA

+

T

-

ELEV

911.83

51+07

7.05

904.78

+50

T.P.

4.11

909.77

6.17

905.66

52

+3

+08

5.85

903.92

+32

\$ BARCLAY



LT

E

RT

19

F.L. 15" CMP LT

|       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 906.3 | 905.3 | 904.5 | 905.8 | 905.9 | 906.18 | 905.6 | 905.2 | 905.7 | 905.8 |
| 5.5   | 6.5   | 7.3   | 6.0   | 5.9   | 5.65   | 6.2   | 6.6   | 6.1   | 6.0   |
| 75    | 30    | 27    | 23    | 19    |        | 20    | 29    | 40    | 75    |

P.K. E 52+00

|       |       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 906.0 | 905.9 | 905.6 | 904.3 | 905.6 | 905.7 | 905.66 | 905.5 | 905.2 | 904.9 | 904.7 |
| 3.8   | 3.9   | 4.2   | 5.5   | 4.2   | 4.1   | 4.11   | 4.3   | 4.6   | 4.9   | 5.1   |
| 75    | 51    | 29    | 25    | 22    | 18    |        | 20    | 30    | 45    | 75    |

F.L. 15" CMP LT

|       |       |       |        |       |       |       |
|-------|-------|-------|--------|-------|-------|-------|
| 906.6 | 906.1 | 905.3 | 905.39 | 905.1 | 905.0 | 904.6 |
| 3.2   | 3.7   | 4.5   | 4.38   | 4.7   | 4.8   | 5.2   |
| 100   | 53    | 18    |        | 20    | 50    | 100   |

Sta

+

T

-

Elev

909.77

M.H.

4.48

905.29

+52

6.25

903.52

+59

53

+50

+80

7.85

901.92

LT

L

R

20

52+32 Lr 18"

F.L. 15" Cmp LT

|       |       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 906.3 | 906.2 | 907.0 | 904.2 | 905.1 | 904.9 | 905.08 | 904.8 | 904.7 | 904.7 | 904.5 |
| 3.5   | 3.6   | 2.8   | 5.6   | 4.7   | 4.9   | 4.69   | 5.0   | 5.1   | 5.1   | 5.3   |
| 75    | 46    | 35    | 27    | 22    | 18    |        | 20    | 29    | 52    | 75    |

|       |       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 907.0 | 906.6 | 906.7 | 903.6 | 904.4 | 904.4 | 904.63 | 904.5 | 904.5 | 905.3 | 905.7 |
| 2.8   | 3.2   | 3.1   | 6.2   | 5.4   | 5.4   | 5.14   | 5.3   | 5.3   | 4.5   | 4.1   |
| 83    | 62    | 33    | 27    | 24    | 18    |        | 20    | 28    | 41    | 66    |

|       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 906.5 | 905.9 | 903.1 | 903.5 | 903.7 | 903.98 | 903.7 | 904.6 | 904.0 | 904.7 |
| 3.3   | 3.9   | 6.7   | 6.3   | 6.1   | 5.79   | 6.1   | 5.2   | 5.8   | 5.1   |
| 75    | 32    | 26    | 23    | 18    |        | 20    | 29    | 53    | 75    |

FL 15" Cmp LT

STA

+

X

-

ELEV

909.77

54

± GRASS ENT

+66

± DIRT ENT

M.H

7.20

902.57

+30

+50

T.P

3.47

905.08

8.16

901.61

M.H.

3.07

902.01

+98

5.08

900.00



LT

L

R

21

|       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 906.9 | 904.7 | 904.3 | 903.2 | 903.21 | 903.1 | 902.8 | 903.0 | 902.9 |
| 2.9   | 5.1   | 5.5   | 6.6   | 6.56   | 6.7   | 7.0   | 6.8   | 6.9   |
| 75    | 52    | 32    | 17    |        | 19    | 36    | 59    | 75    |

|       |       |       |        |       |       |        |       |       |       |       |
|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 905.8 | 904.6 | 903.8 | 901.53 | 903.6 | 903.2 | 903.12 | 903.1 | 902.8 | 903.0 | 902.9 |
| 4.0   | 5.2   | 6.0   | 8.24   | 6.2   | 6.6   | 6.65   | 6.7   | 7.0   | 6.8   | 6.9   |
| 75    | 50    | 29    | 25     | 22    | 17    |        | 19    | 36    | 58    | 75    |

K.L.

15°  
Cmp

54+41 LT 18

|       |       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 904.8 | 904.0 | 903.3 | 902.0 | 903.1 | 902.6 | 902.44 | 902.0 | 901.8 | 901.8 | 901.9 |
| 5.0   | 5.8   | 6.5   | 7.8   | 4.7   | 7.2   | 7.33   | 7.8   | 8.0   | 8.0   | 7.9   |
| 75    | 52    | 33    | 28    | 21    | 17    |        | 22    | 44    | 67    | 75    |

P.K. &amp; 55+00

54+41 RT 21

F.L. 15° Cmp LT

STA

+

K

-

ELEV

55

+05

5.27

899.81

+40

+15

L DIETER

M.H.

4.80

900.28

M.H.

4.62

900.46

56

LT

K

RT

22

|       |       |       |        |       |       |       |
|-------|-------|-------|--------|-------|-------|-------|
| 902.0 | 901.8 | 901.5 | 901.61 | 901.0 | 901.1 | 901.4 |
| 3.1   | 3.3   | 3.6   | 3.47   | 4.1   | 4.6   | 3.7   |
| 45    | 23    | 18    |        | 23    | 43    | 63    |
| HO    |       |       |        |       |       | HO.   |

FL 15" CMP LT

|       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 902.1 | 902.0 | 901.3 | 900.7 | 900.9 | 900.96 | 900.8 | 900.2 | 900.1 | 899.8 |
| 3.0   | 3.1   | 3.8   | 4.4   | 4.2   | 4.12   | 4.3   | 4.9   | 5.0   | 5.3   |
| 75    | 33    | 32    | 27    | 18    |        | 26    | 28    | 51    | 25    |

|       |       |       |        |       |       |       |
|-------|-------|-------|--------|-------|-------|-------|
| 901.6 | 900.8 | 900.5 | 900.59 | 900.3 | 899.8 | 899.5 |
| 3.5   | 4.3   | 4.6   | 4.49   | 4.8   | 5.3   | 5.6   |
| 100   | 57    | 18    |        | 23    | 57    | 100   |

55+65 RT 23

55+65 LT 18

|       |       |       |        |       |       |       |       |
|-------|-------|-------|--------|-------|-------|-------|-------|
| 900.8 | 900.1 | 900.0 | 900.15 | 899.3 | 898.8 | 899.5 | 899.5 |
| 4.3   | 5.6   | 5.1   | 4.93   | 5.8   | 6.3   | 5.6   | 5.6   |
| 25    | 50    | 18    |        | 23    | 31    | 40    | 75    |
|       |       |       |        |       |       | BIT   | ENT   |

STA

+

X

-

ELEV

905.08

56+50

M.N

5.81

899.27

+95

8.32

896.76

57+06

E CONC ENT RT

+16

8.65

896.43

+19

7.08

898.00

+29

E BIT ENT LT



23

 $56 + 80 = 136$ 

FL GMP RT

| 901.4 | 900.1 | 899.4 | 898.5 | 899.1 | 899.18 | 898.6 | 897.90 | 897.24 | 897.45 |  |  |     |
|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--|--|-----|
| 3.7   | 5.0   | 5.7   | 6.6   | 6.0   | 5.90   | 6.5   | 7.18   | 7.84   | 7.63   |  |  |     |
| 85    | 52    | 33    | 26    | 19    |        | 20    | 35     | 49     | 63     |  |  |     |
| NO    |       | FE    |       |       |        |       | CONC   | CONC   | CONC   |  |  | GAR |

F.L. 15' EMP RT

FL 15" EMP LT

|      |     |     |      |     |     |     |     |     |
|------|-----|-----|------|-----|-----|-----|-----|-----|
| 3.35 | 5.2 | 6.0 | 6.00 | 6.8 | 8.7 | 8.9 | 9.0 | 9.2 |
| 85   | 45  | 18  | 2    | 21  | 32  | 45  | 60  | 75  |
| conc |     |     |      |     |     |     |     |     |

| Sta | + | $\Delta$ | - | Elev |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

|       |  |  |  |  |
|-------|--|--|--|--|
| 57+38 |  |  |  |  |
|-------|--|--|--|--|

|  |  |      |        |  |
|--|--|------|--------|--|
|  |  | 7.36 | 897.72 |  |
|--|--|------|--------|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 57+50 |  |  |  |  |
|-------|--|--|--|--|

|  |  |      |        |  |
|--|--|------|--------|--|
|  |  | 8.25 | 896.83 |  |
|--|--|------|--------|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 57+49 |  |  |  |  |
|-------|--|--|--|--|

|  |  |                   |  |  |
|--|--|-------------------|--|--|
|  |  | $\pm$ CONC ENT RT |  |  |
|--|--|-------------------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 57+60 |  |  |  |  |
|-------|--|--|--|--|

|  |             |  |  |  |
|--|-------------|--|--|--|
|  | CONC ENT LT |  |  |  |
|--|-------------|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 57+74 |  |  |  |  |
|-------|--|--|--|--|

|  |  |      |        |  |
|--|--|------|--------|--|
|  |  | 7.96 | 897.12 |  |
|--|--|------|--------|--|

|    |  |  |  |  |
|----|--|--|--|--|
| 58 |  |  |  |  |
|----|--|--|--|--|

LT

#

RT

24

F.L. 15" CMP LT

F.L. 15" CMP LT

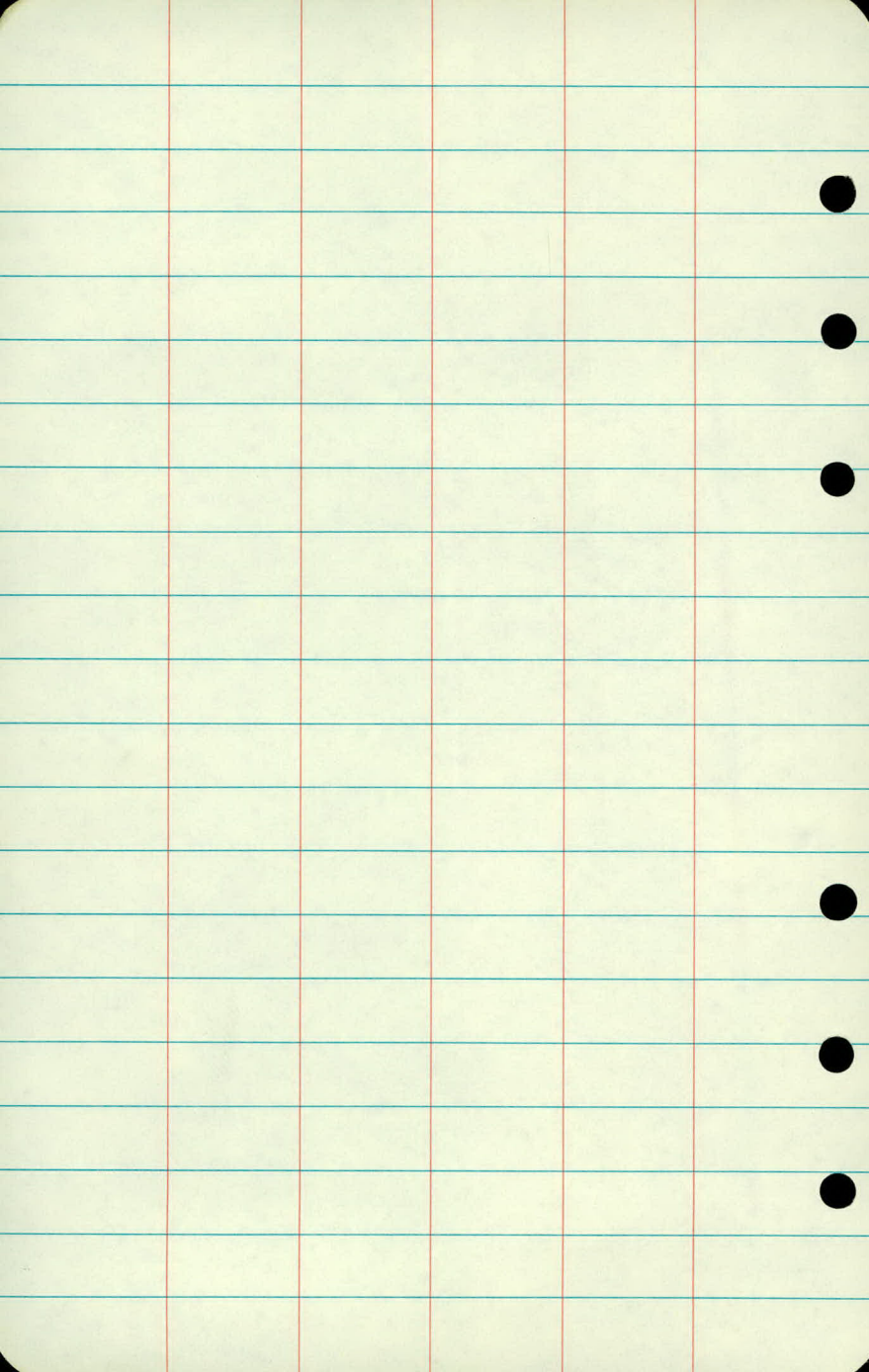
|       |       |       |       |        |       |        |                   |
|-------|-------|-------|-------|--------|-------|--------|-------------------|
| 901.9 | 899.0 | 896.8 | 899.1 | 899.00 | 898.4 | 897.48 | 896.96            |
| 3.2   | 6.1   | 8.3   | 6.0   | 6.08   | 6.7   | 7.60   | 8.12              |
| 75    | 33    | 25    | 19    | 20     | 31    | CONC   | 63<br>CONC<br>GAR |

|            |       |       |       |        |            |                   |        |
|------------|-------|-------|-------|--------|------------|-------------------|--------|
| 902.41     | 900.9 | 899.9 | 899.1 | 898.98 | 898.5      | 897.56            | 897.00 |
| 2.67       | 4.2   | 5.2   | 6.0   | 6.10   | 6.6        | 7.52              | 8.08   |
| 88<br>CONC | 51    | 33    | 19    | 20     | 32<br>CONC | 63<br>CONC<br>GAR |        |

F.L. 15" CMP LT

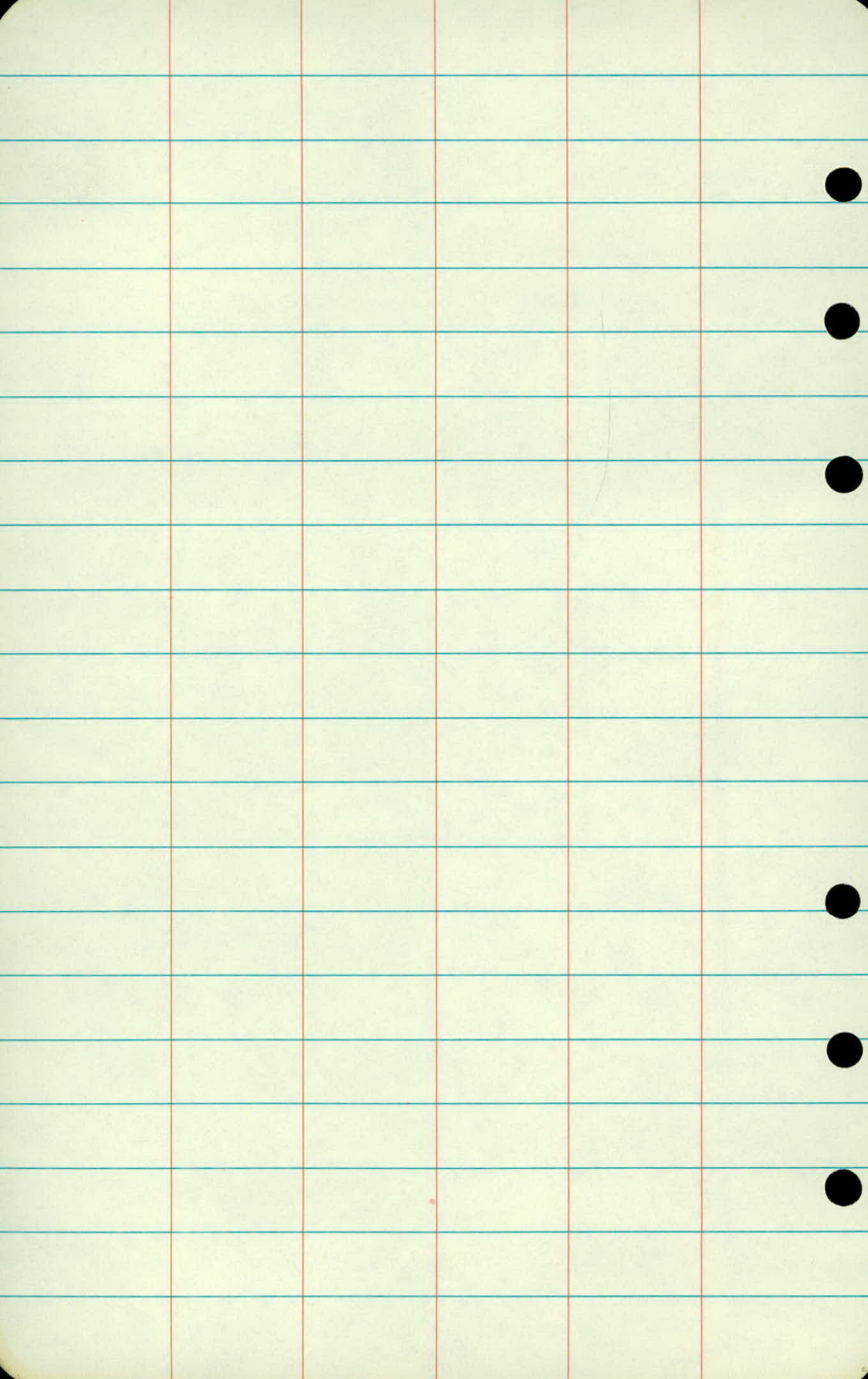
|       |       |       |       |       |        |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 900.6 | 899.8 | 897.2 | 898.6 | 898.9 | 898.95 | 898.4 | 897.2 | 898.0 | 897.6 |
| 4.5   | 5.3   | 7.9   | 6.5   | 6.2   | 6.13   | 6.7   | 7.9   | 7.1   | 7.5   |
| 47    | 33    | 26    | 23    | 18    | 20     | 31    | FE    | 44    | 75    |

902.6  
25  
88  
40





Top HYD DIET BA & FROST



J. A  
ML  
DS  
RC  
BW  
MR  
GA

JAN 9, 19  
-5 SUNNY

14

X SECTIONS

FROST AVE

STA

+

$\pi$

-

ELEV

4.24

906.62

902.38

58+00

✓

+50

✓

H66

10.07 896.55

178

GUTTER LINE (HAZELWOOD WEST)



LT

Q

RT

15

## Top WYD HAZELWOOD + FROST

| 00.50 | 89.20 | 97.90 | 99.00 | 99.0 | 99.0 | 98.6 | 98.4 | 97.4     | 98.3 |
|-------|-------|-------|-------|------|------|------|------|----------|------|
| 6.1   | 7.4   | 8.7   | 7.6   | 7.6  | 7.60 | 8.0  | 8.2  | 9.2      | 8.3  |
| 46    | 35    | 28    | 20    | 13   |      | 17   | 23   | 31<br>52 | 54   |

✓

01.1  
5.5  
67

| 00.7 | 00.4 | 97.5 | 98.6 | 98.7 | 98.9 | 98.1 | 98.6 | 97.9 | 98.0 | 97.4 |
|------|------|------|------|------|------|------|------|------|------|------|
| 5.9  | 6.2  | 9.1  | 8.0  | 7.9  | 7.72 | 7.9  | 8.0  | 8.7  | 8.6  | 9.2  |
| 56   | 34   | 26   | 20   | 14   |      | 17   | 23   | 31   | 47   | 88   |

✓

00.8  
5.8  
75

## INVERT 15" C.M.P

| 902.12 | 99.2 | 98.5 | 98.7 | 98.9 | 98.5 | 97.9 | 97.2 | 96.1 |
|--------|------|------|------|------|------|------|------|------|
| 4.5    | 7.4  | 8.1  | 7.9  | 7.72 | 8.1  | 8.7  | 9.4  | 9.9  |
| 100    | 76   | 24   | 11   |      | 17   | 46   | 74   | 100  |

✓

STA

+

K

-

ELEV

906.62

+95

2 HAZELWOOD

+99

7.82

898.80

59+07

GUTTER LINE (EAST EDGE HAZELWOOD)

+17

✓

+50

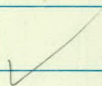
LT

F

RT

16

| 901.5 | 99.4 | 98.8 | 98.7 | 98.8 | 98.6 | 97.3 | 96.6 |
|-------|------|------|------|------|------|------|------|
| 5.1   | 7.2  | 7.8  | 7.9  | 7.8  | 8.0  | 9.3  | 10.0 |
| 89    | 44   | 17   | 12   | MON  | 18   | 65   | 100  |



M.H LT 17'

| 901.2 | 900.1 | 98.7 | 98.8 | 98.89 | 98.5 | 97.8 | 97.0 | 96.3 |
|-------|-------|------|------|-------|------|------|------|------|
| 5.4   | 6.5   | 7.9  | 7.8  | 7.73  | 8.1  | 8.8  | 9.6  | 10.3 |
| 89    | 66    | 34   | 13   |       | 17   | 39   | 67   | 100  |



| 97.1 | 98.5 | 98.5 | 99.6 | 98.9 | 98.4 | 98.2 | 95.4 | 95.9 | 94.6 |
|------|------|------|------|------|------|------|------|------|------|
| 9.5  | 8.1  | 8.1  | 7.0  | 7.7  | 8.2  | 8.4  | 11.2 | 10.7 | 12.0 |
| 35   | 32   | 23   | 13   |      | 17   | 27   | 29   | 39   | 48   |

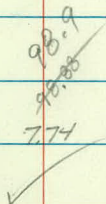
  

| 99.5 | 900.7 | 94.9 | 94.92 |
|------|-------|------|-------|
| 7.1  | 5.9   | 11.7 | 11.7  |
| 68   | 84    | 96   | 71    |



| 901.22 | 99.9 | 99.4 | 98.6 | 98.6 | 98.9 | 98.6 | 98.4 | 98.6 | 95.8 | 95.12 |
|--------|------|------|------|------|------|------|------|------|------|-------|
| 5.4    | 6.7  | 7.2  | 8.0  | 8.0  | 7.74 | 8.0  | 8.2  | 8.0  | 10.8 | 11.5  |
| 78     | 95   | 36   | 24   | 15   |      | 17   | 25   | 31   | 58   | 83    |

PARKING LOT



| STA | T | K | - | ELEV |
|-----|---|---|---|------|
|-----|---|---|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 906.62 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 60+00 |  |  |  |  |
|-------|--|--|--|--|

|   |  |  |  |  |
|---|--|--|--|--|
| ✓ |  |  |  |  |
|---|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 61+00 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +21 |  |  |  |  |
|-----|--|--|--|--|

|  |  |      |        |  |
|--|--|------|--------|--|
|  |  | 5.96 | 900.66 |  |
|--|--|------|--------|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +59 |  |  |  |  |
|-----|--|--|--|--|

|      |    |  |  |  |
|------|----|--|--|--|
| ENT. | LT |  |  |  |
|------|----|--|--|--|



LT

L

RT

17

| 902.62 | 900.22 | 99.82 | 99.12 | 98.9 | 99.2 | 99.02 | 98.9 | 98.9 | 95.8 | 94.5 |
|--------|--------|-------|-------|------|------|-------|------|------|------|------|
| 4.0    | 6.4    | 6.8   | 7.5   | 7.7  | 7.42 | 7.6   | 7.7  | 7.7  | 10.8 | 12.1 |
| 100    | 45     | 32    | 24    | 12   |      | 18    | 25   | 32   | 55   | 89   |

94.42  
12.2  
100

| 903.52 | 902.32 | 900.32 | 900.12 | 99.62 | 99.52 | 99.45 | 99.52 | 99.42 | 99.32 | 95.62 | 94.52 |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3.1    | 4.3    | 6.3    | 6.5    | 7.0   | 7.1   | 7.17  | 7.1   | 7.2   | 7.3   | 11.0  | 12.1  |
| 100    | 75     | 42     | 33     | 24    | 13    |       | 18    | 26    | 34    | 53    | 100   |

PARKING LOT

| 03.72 | 02.12 | 00.62 | 00.42 | 00.22 | 00.22 | 900.25 | 900.12 | 00.02 | 99.52 | 95.12 | 94.72 |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
| 2.9   | 4.5   | 6.0   | 6.2   | 6.4   | 6.4   | 6.37   | 6.5    | 6.6   | 7.1   | 11.5  | 11.9  |
| 100   | 68    | 43    | 34    | 25    | 16    |        | 19     | 26    | 38    | 67    | 100   |

PARKING LOT

M.H. LT 17'

| 04.22 | 02.82 | 01.32 | 01.32 | 01.42 | 901.47 | 01.22 | 01.02 | 00.72 | 96.12 | 95.02 |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 2.4   | 3.8   | 5.3   | 5.3   | 5.2   | 5.15   | 5.4   | 5.6   | 5.9   | 10.5  | 11.6  |
| 95    | 72    | 36    | 24    | 16    |        | 17    | 25    | 35    | 55    | 100   |

| STA  | +    | $\pi$  | -    | ELEV   |
|------|------|--------|------|--------|
|      |      | 906.62 |      |        |
| T.P  | 5.57 | 911.07 | 1.12 | 905.50 |
| B.M. | 3.02 | 911.28 | 3.02 | 908.26 |

62+00

+50

63+00

+35

Prosperity

+65

JA  
ML  
OS  
GA  
RC  
GW  
MR

LT

£

RT

JAN 9, 79  
18

P.K. £ 63+00

Top Hyd Frost & Prosperity

|       |       |       |       |       |        |       |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 05.28 | 03.98 | 03.18 | 02.68 | 02.18 | 002.39 | 02.48 | 02.28 | 01.58 | 06.58 | 05.78 |
| 6.0   | 7.3   | 8.1   | 8.6   | 8.5   | 8.39   | 8.8   | 9.0   | 9.4   | 14.7  | 15.5  |
| 100   | 46    | 42    | 31    | 22    | 20     | 25    | 33    | 59    | 100   |       |

|       |       |       |       |       |        |       |       |       |       |       |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 05.88 | 05.68 | 04.58 | 03.78 | 03.98 | 004.27 | 03.68 | 03.48 | 03.38 | 07.08 | 05.98 |
| 5.4   | 5.6   | 6.7   | 7.5   | 7.3   | 7.01   | 7.6   | 7.8   | 7.9   | 14.2  | 15.3  |
| 100   | 72    | 32    | 24    | 19    | 20     | 25    | 32    | 54    | 100   |       |

|      |      |      |      |      |      |      |      |      |        |        |
|------|------|------|------|------|------|------|------|------|--------|--------|
| 06.2 | 06.1 | 05.3 | 05.1 | 05.8 | 05.5 | 05.3 | 04.8 | 05.1 | 09.0.1 | 09.7.4 |
| 5.1  | 5.2  | 6.0  | 6.2  | 5.5  | 5.77 | 6.0  | 6.5  | 6.2  | 13.2   | 13.9   |
| 100  | 87   | 48   | 34   | 21   | 21   | 31   | 39   | 64   | 100    |        |

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 06.8 | 06.2 | 06.1 | 06.2 | 06.1 | 06.2 | 06.2 | 06.0 |
| 4.5  | 5.1  | 5.2  | 5.11 | 5.2  | 5.1  | 5.1  | 5.3  |
| 100  | 50   | 21   | 22   | 33   | 66   | 100  |      |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 06.1 | 06.0 | 06.0 | 06.3 | 06.4 | 06.3 | 06.0 | 05.9 | 05.9 | 06.3 |
| 5.2  | 5.3  | 5.3  | 5.0  | 4.74 | 5.0  | 5.3  | 5.4  | 5.4  | 5.0  |
| 85   | 65   | 44   | 22   | 19   | 30   | 41   | 89   | 100  |      |

| STA   | +    | $\pi$             | -    | ELEV   |
|-------|------|-------------------|------|--------|
|       |      | 911.28            |      |        |
| +60   |      |                   | 4.92 | 906.36 |
| 64+00 |      |                   |      |        |
| +50   |      |                   |      |        |
| 65+00 |      |                   |      |        |
| +50   | Ent  | L + $\frac{1}{2}$ | Rt   |        |
| T.P.  | 6.43 | 912.89            | 4.82 | 906.46 |



LT

Z

RT

19

M.H. Lt. 17'

|      |      |      |      |      |        |      |      |      |      |      |
|------|------|------|------|------|--------|------|------|------|------|------|
| 10.7 | 10.3 | 08.4 | 05.8 | 06.5 | 06.9 ✓ | 06.3 | 06.1 | 06.0 | 07.2 | 07.7 |
| 0.6  | 1.0  | 2.7  | 5.5  | 4.8  | 4.42   | 5.0  | 5.2  | 5.3  | 4.1  | 3.6  |
| 85   | 72   | 49   | 30   | 18   |        | 19   | 24   | 39   | 58   | 85   |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 09.5 | 06.8 | 05.7 | 06.4 | 06.6 | 06.8 | 06.3 | 05.7 | 07.3 | 07.3 |
| 1.8  | 4.5  | 5.6  | 4.9  | 4.7  | 4.47 | 5.0  | 5.6  | 4.0  | 4.0  |
| 62   | 40   | 29   | 21   | 17   |      | 21   | 29   | 56   | 79   |

10.9  
0.4  
85

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 10.0 | 07.6 | 05.3 | 06.5 | 06.7 | 06.3 | 06.4 | 05.7 | 07.2 | 07.5 |
| 1.3  | 3.7  | 6.0  | 4.8  | 4.62 | 5.0  | 4.9  | 5.6  | 4.1  | 3.8  |
| 80   | 50   | 29   | 16   | ✓    | 15   | 22   | 37   | 53   | 85   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 10.8 | 08.4 | 07.1 | 06.7 | 06.5 | 06.5 | 06.2 | 06.5 | 07.0 | 07.8 | 08.1 |
| Conc | Conc | Conc |      |      |      |      |      |      |      | Conc |
| 0.46 | 2.93 | 4.18 | 4.6  | 4.8  | 4.76 | 5.1  | 4.8  | 4.3  | 3.5  | 2.93 |
| 93   | 66   | 44   | 29   | 19   |      | 16   | 27   | 43   | 76   | 100  |

P/L Str 66+00 Z

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

912.89

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

66+00

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

+53

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

Ent. Lt.

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

67+00

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

+50

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

+95

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

6.88

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

906.01

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

+95

| STA | + | $\Delta$ | - | ELEV |
|-----|---|----------|---|------|
|-----|---|----------|---|------|

¢ Rose wood

JA  
ML  
DS  
BW  
MR

LT

4

RT

JAN 10, 79

20

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.5 | 07.2 | 05.5 | 06.2 | 06.3 | 06.5 | 06.1 | 06.0 | 05.6 | 07.0 | 07.8 | 07.9 |
| 24   | 57   | 7.4  | 6.7  | 6.6  | 6.43 | 6.8  | 6.9  | 7.3  | 5.9  | 5.1  | 5.02 |
| 91   | 54   | 33   | 22   | 14   |      | 16   | 21   | 29   | 43   | 56   | 66   |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 10.3 | 07.3 | 06.2 | 06.2 | 06.3 | 06.1 | 05.9 | 05.3 | 06.3 | 06.6 |
| 2.6  | 5.6  | 6.7  | 6.7  | 6.60 | 6.8  | 7.0  | 7.6  | 6.6  | 6.3  |
| 91   | 44   | 21   | 14   |      | 16   | 21   | 31   | 54   | 90   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 12.1 | 07.0 | 04.9 | 06.2 | 06.2 | 06.2 | 06.0 | 05.9 | 05.3 | 06.0 | 07.4 |
| 0.8  | 5.9  | 8.0  | 6.7  | 6.7  | 6.74 | 6.9  | 7.0  | 7.6  | 6.9  | 5.3  |
| 91   | 48   | 30   | 21   | 13   |      | 16   | 22   | 29   | 46   | 53   |

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 09.8 | 09.3 | 08.0 | 05.8 | 04.7 | 05.8 | 06.0 | 05.7 | 05.5 | 05.0 | 05.4 | 07.3 |
| 3.1  | 3.6  | 4.9  | 7.1  | 8.2  | 7.1  | 6.89 | 7.2  | 7.4  | 7.9  | 7.5  | 5.64 |
| 96   | 78   | 50   | 41   | 32   | 20   |      | 16   | 21   | 30   | 45   | 71   |

MH LT 17'

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 08.5 | 06.9 | 06.2 | 05.9 | 05.9 | 05.7 | 05.3 | 04.6 | 03.4 |
| 4.4  | 6.0  | 6.7  | 7.0  | 6.98 | 7.2  | 7.6  | 8.3  | 9.3  |
| 100  | 58   | 29   | 15   |      | 16   | 30   | 61   | 97   |

STA

+

+

-

ELEV

912.89

T.P.

4.36

912.82

4.43

908.46

68+50

✓

69+16

ENT RT

153

ENT LT

T.P.

7.56

912.76

7.62

905.20



LT

E

RT

21

Top HYD ROSEWOOD + HAZELWOOD

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 11.1 | 10.6 | 07.5 | 03.7 | 05.3 | 05.4 | 05.7 | 05.4 | 05.2 | 04.4 | 05.4 | 05.6 |
| 1.7  | 2.2  | 5.3  | 8.1  | 7.5  | 7.4  | 7.09 | 7.4  | 7.6  | 8.4  | 7.4  | 7.2  |
| 76   | 56   | 43   | 30   | 20   | 13   | ✓    | 15   | 21   | 31   | 49   | 72   |

12.3  
0.5  
95  
HOUSE

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 12.3 | 10.6 | 08.4 | 04.4 | 05.3 | 05.4 | 05.4 | 05.1 | 05.1 | 05.5 | 05.4 |
| 0.5  | 2.2  | 4.4  | 8.4  | 7.5  | 7.4  | 7.38 | 7.7  | 7.7  | 7.3  | 7.39 |
| 95   | 65   | 46   | 30   | 21   | 13   | ✓    | 15   | 31   | 61   | 86   |
| HO   |      |      |      |      |      |      |      |      |      | CONC |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 09.5 | 07.4 | 06.2 | 05.4 | 05.3 | 04.9 | 04.9 | 03.6 | 05.7 | 05.5 | 05.9 |
| 3.3  | 5.4  | 6.6  | 7.4  | 7.49 | 7.9  | 7.9  | 9.2  | 7.6  | 7.3  | 6.9  |
| 75   | 54   | 33   | 16   |      | 15   | 22   | 34   | 51   | 75   | 90   |
|      |      |      |      |      |      |      |      |      |      | HO   |

P.K. E 70+00

STA

+

$\pi$

-

ELEV

912.76

70+00

+08

7.68

905.08

+25

B.H

ENT RT

+37

ENT LT

+50

LT

L

RT

22

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 10.4 | 08.2 | 07.8 | 05.1 | 05.1 | 04.9 | 04.9 | 03.1 | 05.3 | 04.6 | 06.0 |
| 2.4  | 4.6  | 9.0  | 7.7  | 7.7  | 7.9  | 7.9  | 7.7  | 7.5  | 8.2  | 6.75 |
| 89   | 55   | 32   | 21   | 14   | 21   | 21   | 33   | 45   | 66   | 86   |

M.H. LT 17'

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 07.3 | 06.4 | 04.7 | 05.1 | 05.1 | 04.9 | 05.1 | 06.3 |
| 85   | 55   | 28   | 16   | 7.66 | 7.9  | 7.7  | 6.5  |
|      |      |      |      | ✓    | 16   | 46   | 92   |

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 05.4 | 05.5 | 05.1 | 05.1 | 05.1 | 05.1 | 05.6 | 05.8 |
| 7.2  | 7.3  | 7.7  | 7.7  | 7.65 | 15   | 41   | 91   |
| 69   | 51   | 26   | 18   | ✓    |      |      |      |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 04.7 | 03.4 | 05.0 | 05.0 | 05.1 | 05.3 | 05.3 | 03.9 | 06.1 | 05.3 |
| 8.1  | 9.4  | 7.8  | 7.8  | 7.68 | 7.5  | 7.5  | 8.9  | 6.7  | 7.5  |
| 35   | 32   | 25   | 14   | ✓    | 15   | 25   | 33   | 48   | 91   |

05.4  
7.2  
60

| STA | + | $\pi$ | - | ELEV |
|-----|---|-------|---|------|
|-----|---|-------|---|------|

|  |  |        |  |  |
|--|--|--------|--|--|
|  |  | 912.76 |  |  |
|--|--|--------|--|--|

|       |  |  |  |  |
|-------|--|--|--|--|
| 71+00 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |      |        |
|-----|--|--|------|--------|
| +56 |  |  | 9.99 | 902.77 |
|-----|--|--|------|--------|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|

|     |  |  |      |        |
|-----|--|--|------|--------|
| +65 |  |  | 8.94 | 903.82 |
|-----|--|--|------|--------|

|       |  |  |  |  |
|-------|--|--|--|--|
| 72+00 |  |  |  |  |
|-------|--|--|--|--|

|     |  |  |      |        |
|-----|--|--|------|--------|
| +25 |  |  | 5.73 | 907.03 |
|-----|--|--|------|--------|

|     |  |  |  |  |
|-----|--|--|--|--|
| +25 |  |  |  |  |
|-----|--|--|--|--|

|  |   |         |  |  |
|--|---|---------|--|--|
|  | £ | Kennard |  |  |
|--|---|---------|--|--|

|     |  |  |  |  |
|-----|--|--|--|--|
| +50 |  |  |  |  |
|-----|--|--|--|--|



LT

\$

RT

23

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 06.0 | 05.1 | 03.8 | 05.0 | 05.0 | 05.1 | 04.9 | 04.6 | 04.2 | 06.0 | 05.4 |
| 6.8  | 7.2  | 9.0  | 7.8  | 7.8  | 7.74 | 7.9  | 8.2  | 8.6  | 6.8  | 7.4  |
| 81   | 47   | 32   | 21   | 14   | ✓    | 15   | 22   | 34   | 51   | 91   |

C.B. RT 97'

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 06.1 | 06.2 | 04.0 | 05.6 | 05.6 | 05.4 | 05.5 | 05.4 | 04.8 | 03.6 | 03.1 |
| 6.1  | 6.6  | 8.8  | 7.2  | 7.2  | 7.24 | 7.3  | 7.4  | 8.0  | 9.2  | 9.1  |
| 85   | 51   | 34   | 21   | 14   | ✓    | 15   | 21   | 39   | 47   | 58   |

West End CAMP

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 05.9 | 06.0 | 06.2 | 06.4 | 06.5 | 06.6 | 06.5 | 06.4 | 07.5 | 07.7 |
| 6.9  | 6.8  | 6.6  | 6.4  | 6.3  | 6.17 | 6.3  | 6.3  | 6.4  | 5.3  |
| 85   | 60   | 42   | 26   | 14   | ✓    | 18   | 29   | 44   | 66   |

MH LT

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 05.5 | 06.1 | 06.6 | 07.2 | 07.4 | 07.1 | 07.1 | 07.0 | 07.2 |
| 7.3  | 6.7  | 6.2  | 5.6  | 5.39 | 5.7  | 5.7  | 5.8  | 5.6  |
| 100  | 63   | 36   | 16   | ✓    | 26   | 50   | 75   | 100  |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 06.6 | 07.1 | 07.9 | 07.7 | 08.4 | 08.1 | 08.0 | 07.5 | 07.9 | 07.9 |
| 6.2  | 5.7  | 4.9  | 5.1  | 4.42 | 4.7  | 4.8  | 5.3  | 4.9  | 4.9  |
| 85   | 60   | 37   | 21   | ✓    | 19   | 26   | 42   | 68   | 85   |

| STA  | +    | $\pi$  | -    | ELEV   |        |
|------|------|--------|------|--------|--------|
|      |      | 912.76 |      |        |        |
| B.M. | 7.30 | 916.78 | 3.32 | 909.44 | 909.48 |

73+00

+50

+54

+54

20.39

896.39

74+00

0.57

T.P.

12.12

925.93

2.97

913.81

74+50



STA

+

π

-

ELEV

925.93

74+87

Ent. Rt.

75+50

B.M.

7.95

933.32

0.56

925.37

75+62

76+00

ENT Rt

+36

ENT Lt



L+

E

R+

25

|      |      |      |      |      |      |              |              |
|------|------|------|------|------|------|--------------|--------------|
| 03.7 | 05.9 | 13.1 | 19.9 | 20.0 | 19.7 | 19.4         | 19.7         |
| 22.2 | 20.0 | 12.8 | 6.0  | 5.87 | 6.2  | conc<br>6.50 | conc<br>6.18 |
| 100  | 65   | 39   | 20   |      | 20   | 35           | 75           |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 09.8 | 15.5 | 13.9 | 24.1 | 24.0 | 23.2 | 22.8 | 20.9 | 21.4 | 23.7 |
| 16.1 | 14.4 | 12.0 | 1.8  | 1.9  | 2.66 | 2.1  | 5.0  | 4.3  | 2.2  |
| 90   | 66   | 51   | 28   | 22   |      | 21   | 32   | 45   | 78   |

Spike in P.P.

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 12.3 | 14.6 | 23.7 | 23.7 | 23.9 | 23.6 | 22.6 | 27.6 | 29.5 | 30.1 |
| 21.0 | 18.7 | 9.6  | 9.6  | 9.36 | 9.7  | 10.7 | 5.7  | 3.8  | 3.2  |
| 84   | 54   | 29   | 20   |      | 21   | 30   | 55   | 74   | 92   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 19.5 | 19.2 | 23.4 | 25.6 | 25.5 | 25.4 | 25.7 | 24.8 | 29.1 | 30.3 | 31.6 |
| 13.8 | 14.1 | 9.9  | 7.7  | 7.8  | 7.45 | 7.6  | 6.5  | 4.2  | 3.0  | 1.7  |
| 74   | 55   | 38   | 27   | 21   |      | 17   | 34   | 56   | 77   | 100  |

GARAGE

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 22.2 | 23.5 | 25.7 | 27.1 | 27.6 | 27.5 | 26.1 | 27.3 | 28.4 | 32.3 | 32.2 |
| 14.1 | 9.8  | 7.6  | 6.2  | 5.66 | 5.8  | 7.2  | 6.0  | 4.9  | 1.0  | 1.1  |
| 98   | 76   | 41   | 20   |      | 20   | 29   | 35   | 43   | 60   | 100  |

Sta

+

A

—

ELEV

933.32

76+48

RETAINING WALL LT

+ P

8.53

941.59

0.23

933.09

(933.06)

76+87

± ENT LT.

77+50

Lt

E

Rt

26

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 26.6 | 27.1 | 27.2 | 27.9 | 27.6 | 28.0 | 28.2 | 26.3 | 24.9 | 26.3 | 27.4 | 31.2 | 31.2 |
| 6.7  | 6.2  | 6.1  | 5.4  | 5.7  | 5.3  | 5.0  | 7.0  | 8.4  | 7.0  | 5.9  | 2.1  | 2.1  |
| 84   | 67   | 55   | 44   | 33   | 20   |      | 19   | 29   | 35   | 45   | 60   | 100  |

GUY?

SPIKE IN GUY POLE

|      |      |       |      |       |      |      |      |      |      |
|------|------|-------|------|-------|------|------|------|------|------|
| 32.8 | 32.0 | 30.9  | 29.9 | 30.1  | 29.8 | 28.3 | 30.4 | 32.1 | 34.9 |
| CONC | CONC | CONC  |      |       |      |      |      |      |      |
| 8.76 | 9.58 | 10.72 | 11.7 | 11.52 | 11.8 | 13.3 | 11.2 | 9.5  | 6.7  |
| 60   | 50   | 35    | 20   |       | 18   | 29   | 35   | 47   | 56   |

|      |      |
|------|------|
| 35.4 | 35.3 |
| 6.2  | 6.3  |
| 90   | 75   |

|       |      |      |      |      |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 40.4  | 39.5 | 37.8 | 35.1 | 33.1 | 33.4 | 33.2 | 32.8 | 31.5 | 32.8 | 38.1 | 38.8 |
| MOUSE |      |      |      |      |      |      |      |      |      |      |      |
| 1.0   | 2.1  | 7.8  | 8.5  | 8.5  | 8.18 | 8.4  | 8.8  | 10.1 | 7.8  | 3.5  | 2.8  |
| 80    | 62   | 39   | 28   | 20   |      | 19   | 26   | 32   | 39   | 49   | 61   |

STA

+

T

-

ELEV

941.59

78+00

78+50

TP

12.02 952.67 0.94

940.65

+ 80

L Flandreau

79+00



L+

♀

R+

27

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 40.4 | 39.8 | 36.0 | 35.7 | 35.7 | 35.9 | 35.7 | 35.5 | 34.0 | 40.2 | 40.5 |
| 1.2  | 1.8  | 5.6  | 5.9  | 5.9  | 5.70 | 5.9  | 6.1  | 7.6  | 1.4  | 1.1  |
| 82   | 62   | 42   | 30   | 22   | ✓    | 18   | 24   | 30   | 44   | 5.4  |

HOUSE

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 38.5 | 39.1 | 38.6 | 38.5 | 38.2 | 38.3 | 38.3 | 38.4 | 37.1 | 40.5 | 41.6 |
| 3.0  | 2.5  | 3.0  | 3.1  | 3.4  | 3.25 | 3.3  | 3.2  | 4.5  | 1.1  | 0.0  |
| 90   | 73   | 47   | 27   | 20   | ✓    | 19   | 24   | 31   | 45   | 53   |

|      |      |      |       |       |      |      |      |      |
|------|------|------|-------|-------|------|------|------|------|
| 38.2 | 39.0 | 39.7 | 39.83 | 39.9  | 39.8 | 40.1 | 40.5 | 41.2 |
| 14.5 | 13.7 | 13.0 | 12.84 | 12.77 | 12.9 | 12.6 | 12.2 | 11.5 |
| 72   | 52   | 25   | 17    | ✓     | 20   | 44   | 60   | 72   |

37.3  
15.4  
100

|       |      |       |      |       |      |      |       |       |      |
|-------|------|-------|------|-------|------|------|-------|-------|------|
| 40.21 | 40.8 | 40.53 | 40.5 | 41.1  | 40.7 | 40.9 | 41.13 | 40.76 | 41.9 |
| conc. |      | CB    |      |       |      |      | SW    | CB    |      |
| 12.46 | 11.9 | 12.14 | 12.2 | 11.75 | 12.0 | 11.8 | 11.54 | 11.91 | 10.8 |
| 46    | 35   | 25    | 22   |       | 19   | 29   | 49    | 52    | 66   |

39.2  
13.5  
72

38.8  
13.9  
92

SJA

+

T

-

ELEV

952.67

79+50

✓

80+00

Ent. Rt.

+54

Ent. Lt.

T. P.

5.60

956.55

1.72

950.95

B. M.

8.37

962.05

2.85

953.70

953.68

81+00

L+

1-12-78

R+

28

50.3

Ho.

2.4

49

46.9

Ho.

5.8

75

47.3

Ho.

5.4

83

45.6

Ho.

7.1

51

47.2

Ho.

9.5

32

42.9

Ho.

9.8

22

43.4

Ho.

9.29

18

43.2

Ho.

9.5

18

42.5

Ho.

10.2

29

49.4

Ho.

3.1

44

50.3

Ho.

2.4

77

48.9

Ho.

3.8

55

46.0

Ho.

6.7

34

45.7

Ho.

7.0

22

45.9

Ho.

6.78

16

45.8

Ho.

6.9

25

46.9

Ho.

5.8

25

46.0

Ho.

4.7

39

49.4

Ho.

3.3

47

50.4

Ho.

2.3

64

50.1

Ho.

2.1

78

50.9

Ho.

1.8

93

50.4

Ho.

2.3

56

48.6

Ho.

4.1

31

48.4

Ho.

4.3

22

48.6

Ho.

4.05

15

48.6

Ho.

4.1

15

48.0

Ho.

4.7

23

47.4

Ho.

5.3

34

51.8

Ho.

0.9

56

51.7

Ho.

1.0

85

PK in STA. 81+00

Top SE Cor. Bottom Step Ho. No. 1739

51.1

Ho.

9.0

80

52.9

Ho.

9.2

49

52.3

Ho.

9.7

45

51.0

Ho.

10.8

28

51.0

Ho.

11.1

23

51.0

Ho.

11.2

19

50.9

Ho.

11.2

19

50.1

Ho.

12.0

23

49.9

Ho.

12.2

32

49.7

Ho.

12.4

36

52.7

Ho.

9.4

47

53.0

Ho.

9.1

95

52.9

Ho.

9.2

72

52.8

Ho.

9.3

54

Sta

+

PI

-

ELEV

962.05

81 +31

Ent

Lt

+52

Ent Lt

82

TP

10.18

971.09

1.14

960.91

+25

Ent

Lt

+45

Ent

Rt



S.A.  
G.A.  
B.W.  
R.C.  
M.R.

Lt

1-15-79  
E-10°

Rt

29

|       |       |       |      |      |      |      |      |      |      |
|-------|-------|-------|------|------|------|------|------|------|------|
| 53.38 | 53.05 | 52.25 | 52.5 | 52.6 | 52.8 | 52.5 | 50.9 | 52.9 | 54.2 |
| 8.67  | 9.00  | 9.30  | 9.6  | 9.52 | 9.3  | 9.60 | 11.2 | 8.2  | 7.9  |
| 84    | 58    | 36    | 25   |      | 20   | 23   | 32   | 46   | 63   |

|      |      |      |      |      |      |      |      |      |     |
|------|------|------|------|------|------|------|------|------|-----|
| 54.8 | 54.5 | 54.0 | 53.4 | 53.6 | 53.4 | 52.2 | 52.1 | 54.3 | 80  |
| 7.3  | 7.6  | 8.1  | 8.7  | 8.48 | 8.7  | 9.9  | 10.0 | 7.8  | 6.7 |
| 79   | 59   | 40   | 23   |      | 21   | 26   | 33   | 47   | 64  |

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 56.2 | 54.0 | 54.0 | 56.2 | 56.0 | 55.9 | 54.9 | 53.6 | 54.1 | 55.2 |
| 5.9  | 6.1  | 6.1  | 5.9  | 6.14 | 6.2  | 7.2  | 8.5  | 3.0  | 2.8  |
| 75   | 55   | 30   | 24   |      | 21   | 25   | 31   | 46   | 68   |

P.K. # STA 83+00

|      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|
| 59.2 | 58.8 | 58.2 | 57.4 | 57.2 | 52.0 | 56.1 | 60.3 |
| 11.9 | 12.3 | 12.9 | 13.7 | 13.9 | 14.5 | 15.0 | 10.8 |
| 80   | 68   | 37   | 23   |      | 22   | 32   | 67   |

|      |      |      |      |       |      |      |      |
|------|------|------|------|-------|------|------|------|
| 59.2 | 59.1 | 58.6 | 58.4 | 58.2  | 58.2 | 58.4 | 61.2 |
| 11.9 | 12.0 | 12.5 | 12.7 | 12.86 | 12.9 | 12.7 | 9.9  |
| 72   | 53   | 38   | 25   |       | 23   | 33   | 65   |

STA

+

$\pi$

-

ELEV

971.09

83+00

+54

Ent Lt

84+10

Ent Rt FLT

+50

+93

85+00

Lt

E

Rt

30

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 63.0 | 62.1 | 60.4 | 60.8 | 60.9  | 60.5 | 61.0 | 61.4 | 63.8 | 63.9 |
| 8.1  | 9.0  | 10.5 | 10.3 | 10.18 | 10.6 | 10.1 | 9.7  | 7.7  | 7.2  |
| 70   | 46   | 33   | 26   | ✓     | 30   | 39   | 44   | 54   | 58   |

|       |      |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|------|
| 62.60 | 63.3 | 63.0 | 63.1 | 62.7 | 62.7 | 63.1 | 66.9 |
| Conc  |      |      |      |      |      |      | F21  |
| 7.49  | 7.8  | 8.1  | 8.00 | 8.4  | 8.4  | 8.0  | 4.2  |
| 83    | 50   | 25   | ✓    | 21   | 27   | 40   | 55   |

|       |       |       |      |      |      |      |      |      |      |
|-------|-------|-------|------|------|------|------|------|------|------|
| 67.29 | 67.34 | 65.98 | 64.8 | 64.7 | 64.7 | 64.1 | 64.6 | 68.4 | 70.2 |
| 3.30  | 3.75  | 5.11  | 6.3  | 6.4  | 6.44 | 7.0  | 6.5  | 2.7  | 0.9  |
| 81    | 61    | 45    | 32   | 2.5  | ✓    | 20   | 33   | 61   | 94   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 69.4 | 68.8 | 65.9 | 65.3 | 65.3 | 65.0 | 65.3 | 66.3 | 69.5 | 69.8 | 70.4 |
| 1.7  | 2.3  | 5.2  | 5.8  | 5.55 | 6.1  | 5.6  | 4.8  | 1.6  | 1.3  | 0.7  |
| 71   | 58   | 38   | 26   | ✓    | 21   | 33   | 44   | 54   | 71   | 89   |

|      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 68.6 | 68.4 | 66.8 | 66.3 | 65.7 | 66.1 | 65.8 | 66.9 | 69.1 | 69.7 | 70.1 |
| 2.5  | 2.7  | 4.3  | 4.8  | 5.4  | 5.00 | 5.3  | 4.2  | 2.0  | 1.4  | 1.0  |
| 88   | 68   | 43   | 34   | 22   | ✓    | 25   | 40   | 56   | 73   | 92   |

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 64.3 | 64.3 | 65.1 | 65.7 | 66.2 | 66.0 | 67.7 | 68.6 | 69.8 |
| 6.8  | 6.8  | 6.0  | 5.4  | 4.94 | 5.1  | 3.4  | 2.5  | 1.3  |
| 100  | 83   | 55   | 28   | ✓    | 28   | 46   | 69   | 100  |

Sta

+

 $\pi$ 

-

ELEV

971.09

85+44

E White Bear Ave.

B.M.

6.22 964.87 964.86



Lt

E

Rt

31

62.4

64.6

65.6

65.7

66.4

67.1

67.7

68.3

Med, Med, Median

7.5  
1106.5  
755.5  
505.4  
25

4.69

4.0  
313.4  
702.8  
110

spike in P.P. Lt. Ho. 1761

| STA   | +    | $\pi$  | -    | ELEV   |        |
|-------|------|--------|------|--------|--------|
| B.M.  | 2.36 | 910.82 |      | 908.46 | □      |
| 67+55 |      |        | 5.51 |        |        |
| 67+65 |      |        | 5.71 |        |        |
| 71+67 |      |        | 5.41 |        |        |
| 71+76 |      |        | 5.15 |        |        |
| 72+69 |      |        | 1.73 |        |        |
| 72+78 |      |        | 1.70 |        |        |
| 72+70 |      |        | 4.59 |        |        |
| B.M.  |      |        | 1.34 | 909.48 | 909.48 |

HYD FROST + ROSEWOOD

C.B. LT 22'

C.B. RT 26'

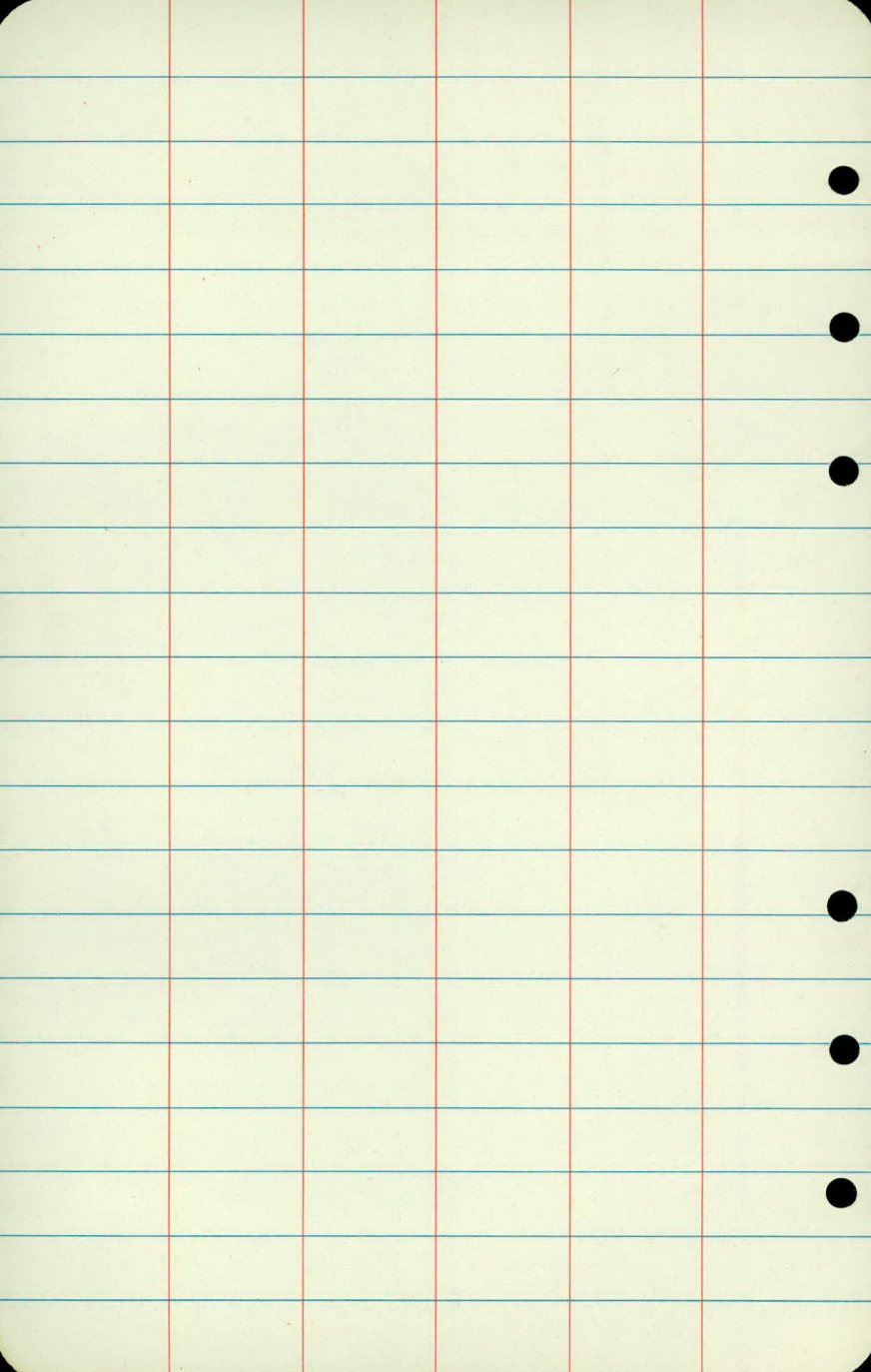
M.H. LT 24'

M.H. LT 26'

M.H. LT 28'

C.B. LT 24'

C.B. RT 24'





ML  
DS  
BL  
MR

MAR 22, 82

SUNNY 35°

FROST AVE

X-SECTIONS 77+79 ENTRANCE

STA

+

+

-

ELLJ

942.07

77+79

LINKER R80

£

LT

RT

Top Hyd SW Cor FLANDRAU

40.7 39.8 34.9 34.6 34.8 34.9 34.9 34.7 35.01

80

55

39

22

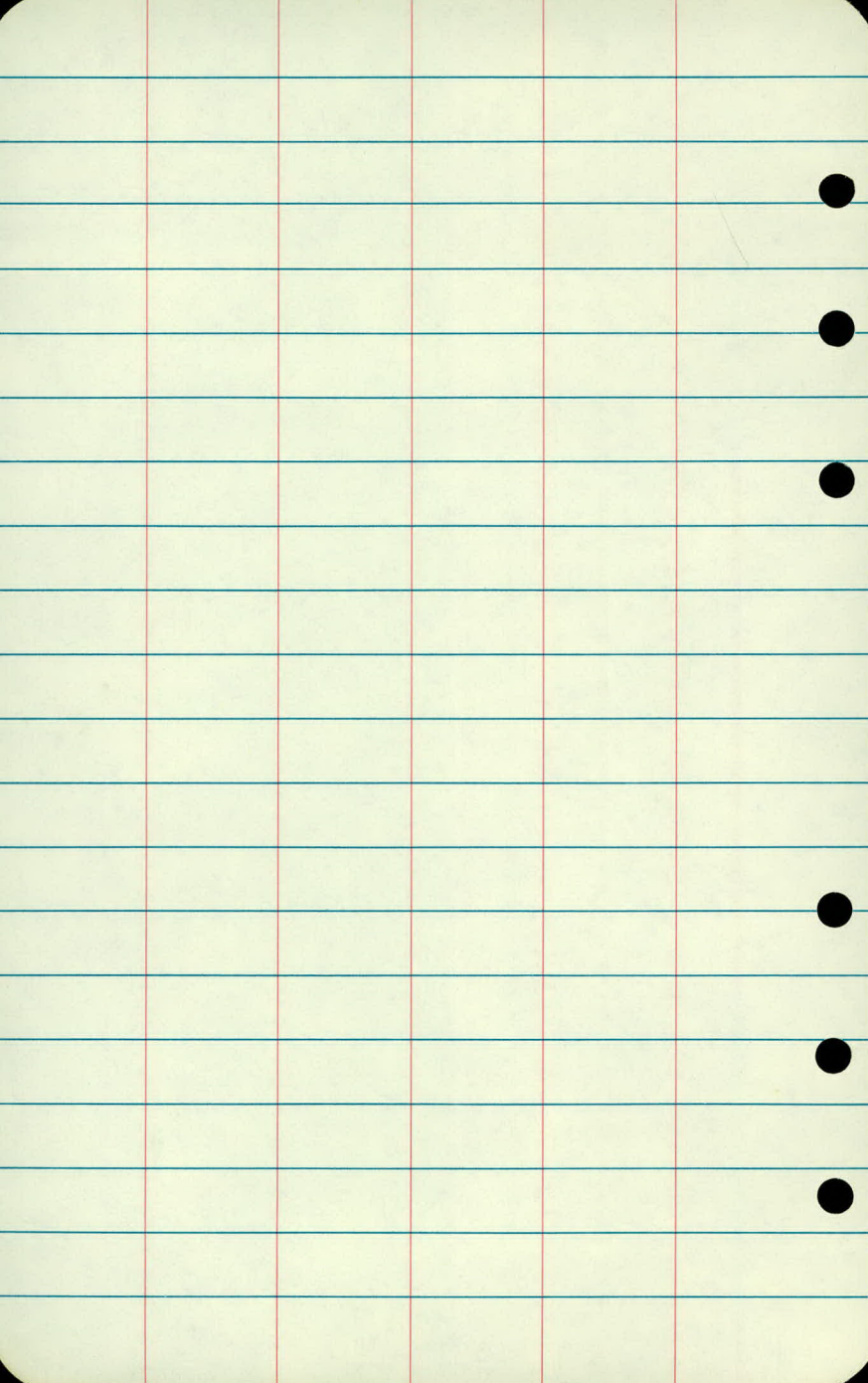
10

10

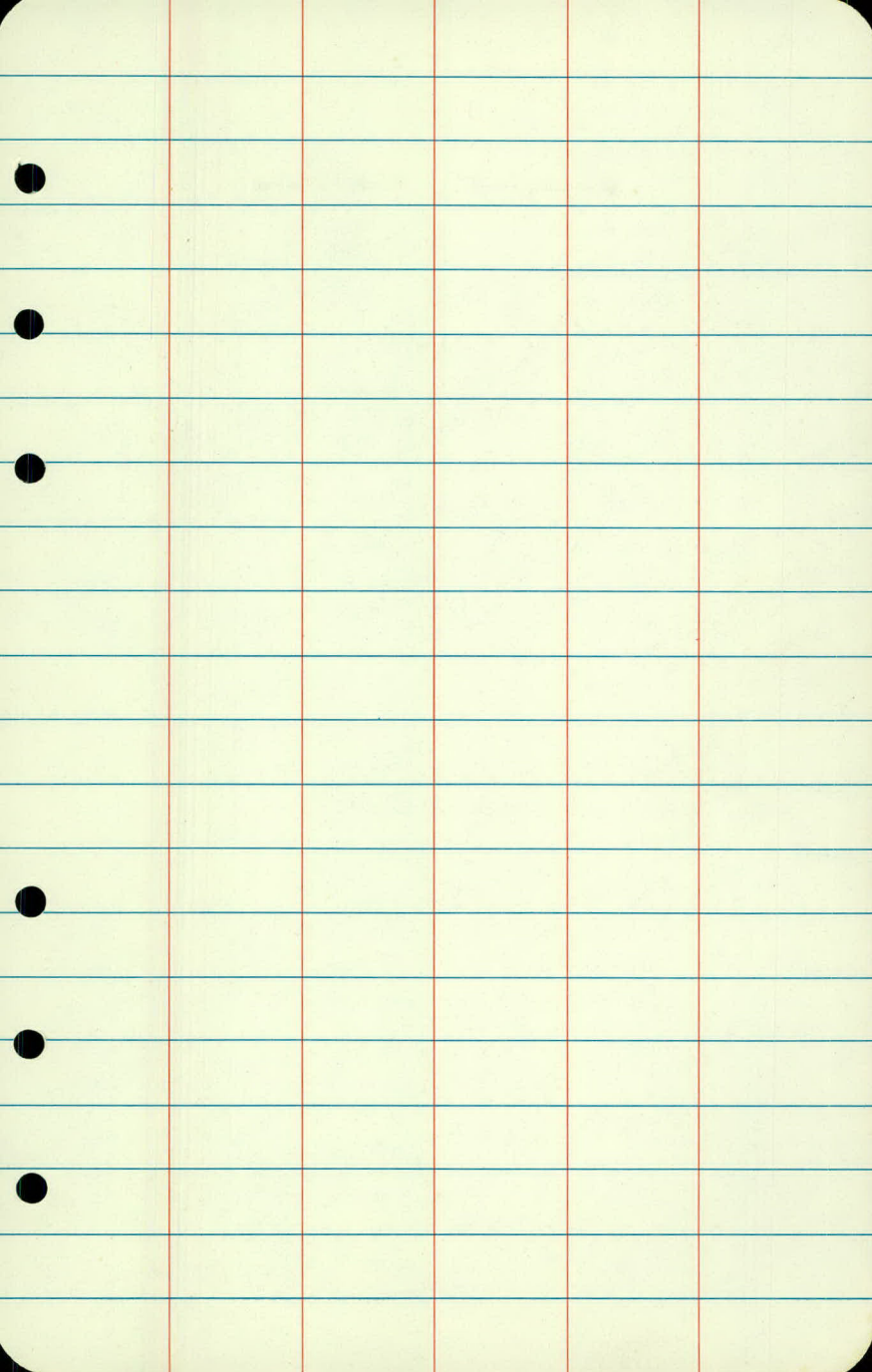
21

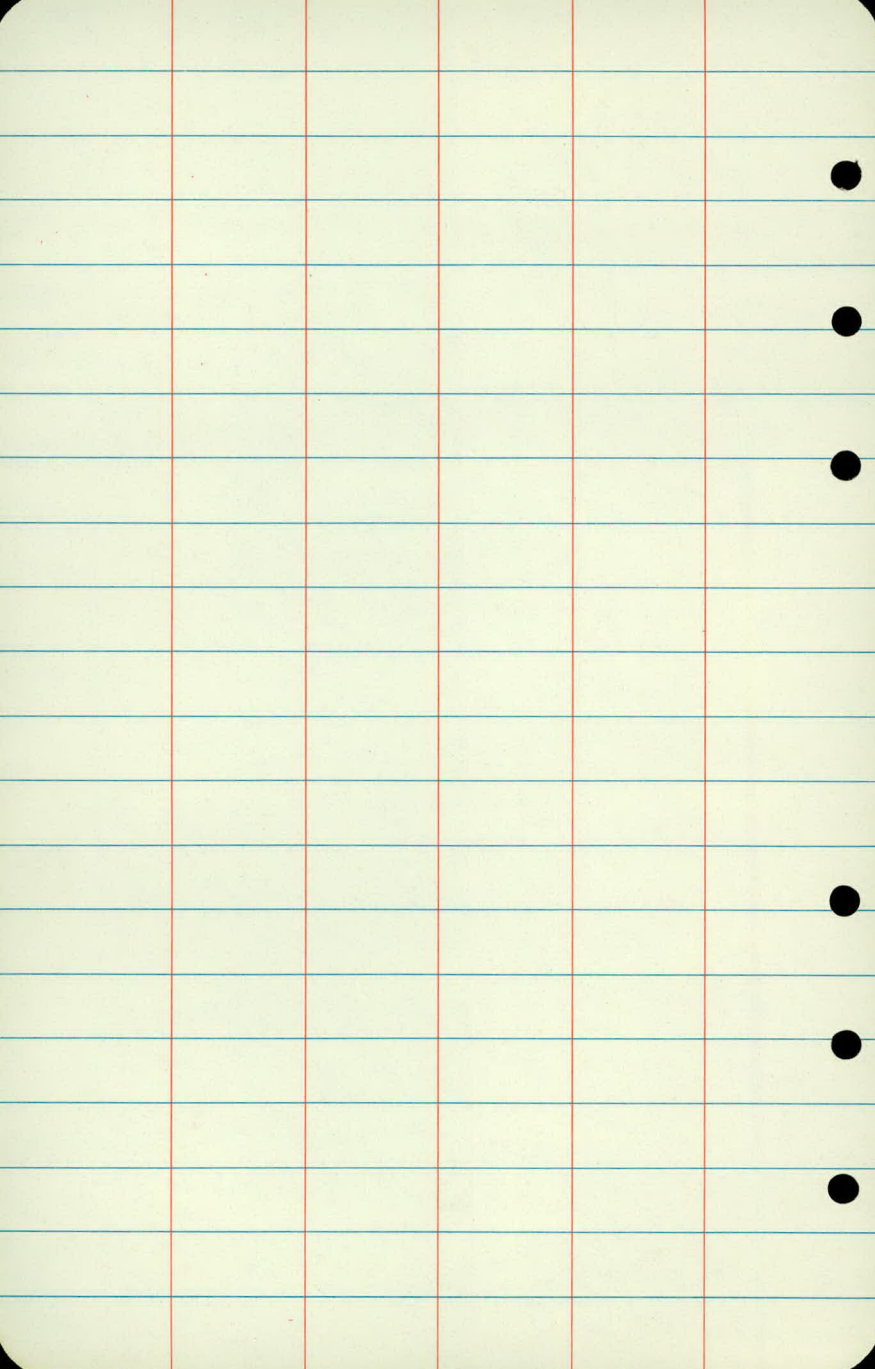
43

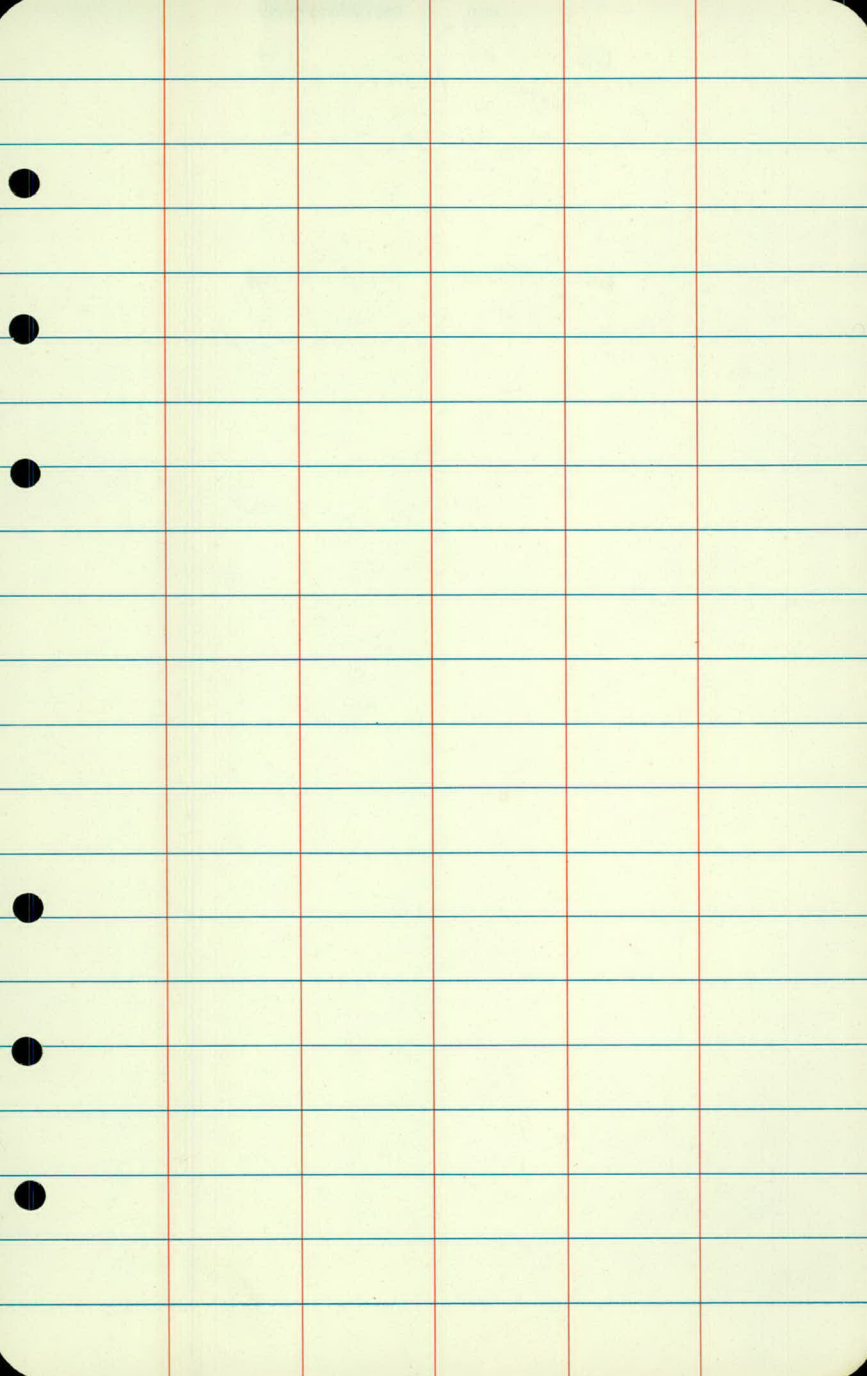
CONC  
SLAB

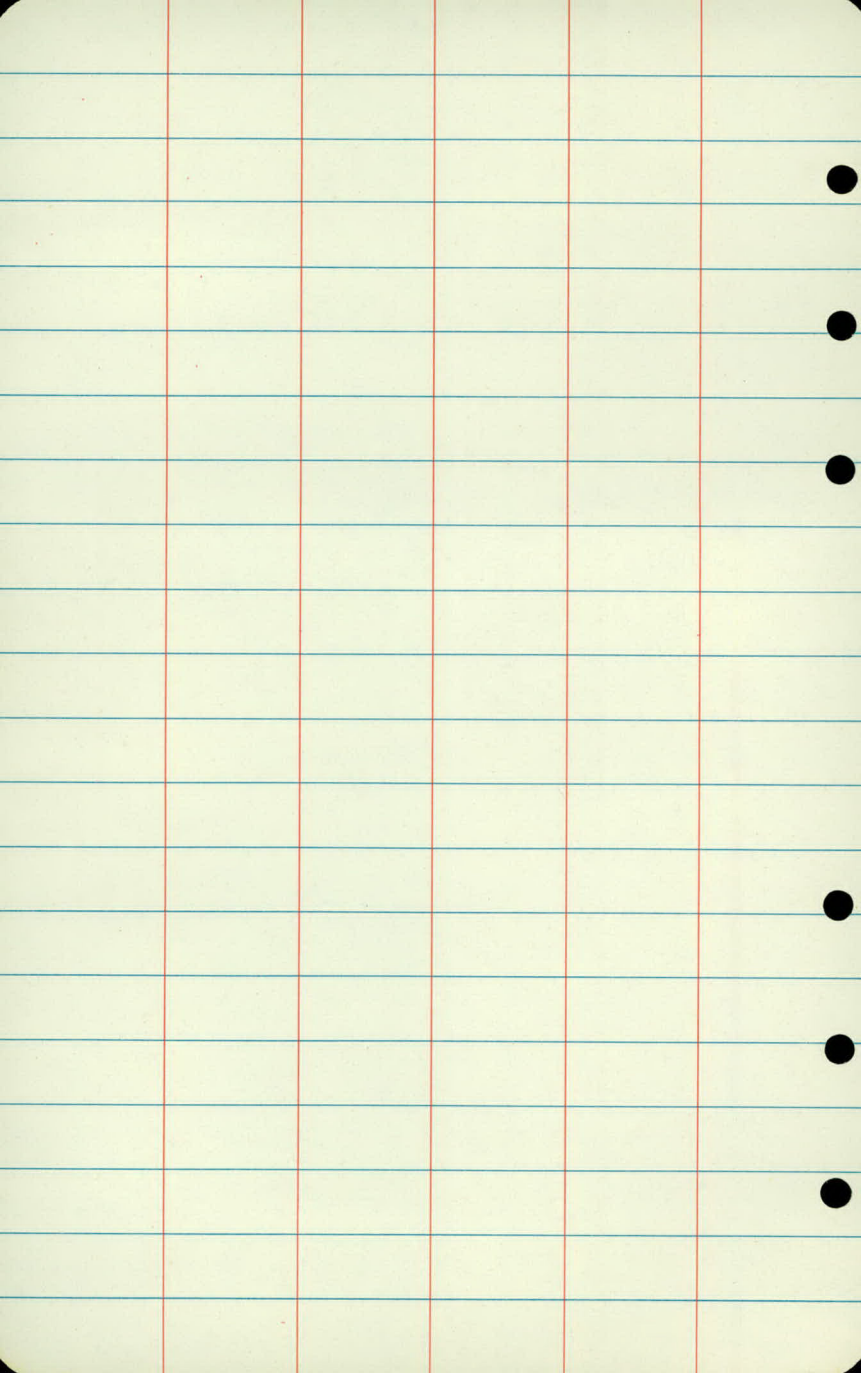














ML  
B  
GT  
LS

AUG 14 82

SUNDAY 65°

X SECTION

W.B.A. & FROST

25+00 TO 28+50

+

X

-

BM

5.30

958.98

953.68

12.75

971.24

0.49

958.49

25

+50

26+09

GUTTER LINE RT

+38

GUTTER LINE RT

I.P.

9.47

976.12

4.59

966.65

+48

BEG WALK

2

RT

Top Se Cor Bottom Step 1739

SE Cor C.B.

|       |       |      |      |
|-------|-------|------|------|
| 95.43 | 56.85 | 57.3 | 58.9 |
| 2.55  | 2.13  | 1.7  | 0.1  |
| 25    | 25    | 33   | 48.  |
| 64.   | T.C.  |      |      |

|        |       |      |      |      |
|--------|-------|------|------|------|
| 55.5A  | 55.97 | 56.0 | 56.1 | 56.5 |
| 3.44   | 3.01  | 3.0  | 0.6  | 2.5  |
| 25     | 25    | 31   | 55   | 82   |
| GUTTER | T.C.  |      |      | T.C. |

|        |      |      |
|--------|------|------|
| 5A.22  | 5A.9 | 5A.9 |
| 4.76   | 4.64 | 4.09 |
| 25     | 33   | 64   |
| GUTTER |      |      |

|        |      |      |
|--------|------|------|
| 53.47  | 5A.0 | 5A.8 |
| 5.51   | 5.01 | 4.18 |
| 25     | 33   |      |
| GUTTER |      |      |

SE Cor H.H.

|       |         |          |      |       |
|-------|---------|----------|------|-------|
| 65.50 | 65.92   | 66.62    | 68.0 | 68.13 |
| 10.62 | 10.2    | 9.5      | 8.1  | 7.99  |
| 25    | 33      | 33       | 52   | 80    |
|       | B. WALL | Top WALL |      | T.C.  |

+

X

-

FLU

976.12

26+80

27

+50

28

+50

T.P.

2.87

968.91

10.08

966.04

29

15.23

953.68

953.68



|       |       |         |          |       |       |
|-------|-------|---------|----------|-------|-------|
| 64.58 | 65.00 | 65.22   | 70.02    | 70.92 | 68.81 |
| 11.54 | 11.12 | 10.9    | 6.1      | 5.2   | 7.31  |
| 25    | 25    | 33      | 33       | 55    | 81    |
| GU.   | T.C.  | R. WALL | Top WALL |       | T.C.  |

|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| 63.92 | 64.41 | 64.62 | 69.32 | 70.22 | 70.72 | 69.20 |
| 12.20 | 11.71 | 11.5  | 6.8   | 5.9   | 5.4   | 6.92  |
| 25    | 25    | 33    | 34    | 41    | 60    | 82    |
| GU.   | T.C.  | R.W.  | T.W.  |       |       | T.C.  |

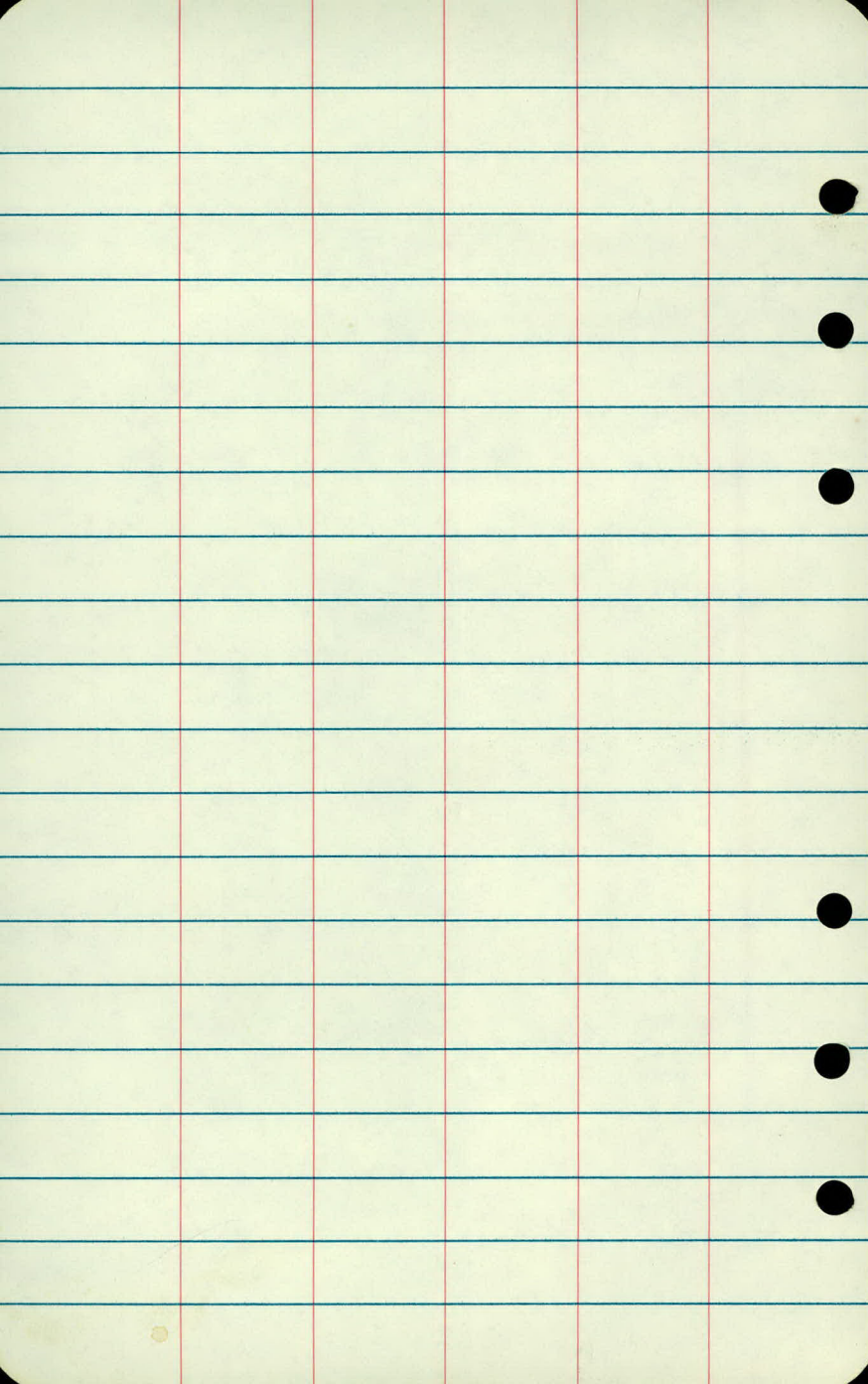
|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 62.36 | 62.81 | 62.62 | 66.12 | 69.62 | 70.01 |
| 13.76 | 13.31 | 13.5  | 10.0  | 6.5   | 6.11  |
| 25    | 25    | 32    | 52    | 46    | 88    |
| GU.   | T.C.  | R.W.  | T.W.  |       | T.C.  |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 60.59 | 60.85 | 61.02 | 64.22 | 68.22 | 69.02 |
| 15.58 | 15.27 | 15.1  | 11.9  | 7.9   | 7.1   |
| 25    | 25    | 32    | 32    | 46    | 72    |
| GU.   | T.C.  | R.W.  | T.W.  |       | BIT   |

|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| 58.86 | 59.33 | 59.32 | 62.82 | 66.02 | 66.82 |
| 17.26 | 16.79 | 16.8  | 12.8  | 10.1  | 9.3   |
| 25    | 25    | 32    | 32    | 49    | 77    |
| GU.   | T.C.  | R.W.  | T.W.  |       |       |

NW COR HH SE BRD W.D.A + FROST

SE COR BOTTOM STEP HO 1739



ML  
BL  
GJ  
SS

SUNNY 90°  
AUG 3, 82

TOPOGRAPHY  
STORM SEWER  
FROST AVE  
61+65 TO VAULT

L<sub>T</sub>

Σ

R<sub>T</sub>

+77 10" ELM  
2

+50

+33 8" ASH  
15

4+00

+85 8" FLM  
29

+50

+31 MAPLE 10"  
45

+24 LITE POLE  
14

3+00

61+65=  
0+00



LT

~~2~~

RT

2



LT

RT

+50

$$\begin{array}{r} +51 \text{ VALET} \\ \hline 2 \end{array}$$

$$\begin{array}{r} +20 \text{ 6" ASH} \\ \hline 3 \end{array}$$

7+00

$$\begin{array}{r} +93 \text{ 10" ASH} \\ \hline 28 \end{array}$$

$$\begin{array}{r} +53 \text{ 8" ASH} \\ \hline 10 \end{array}$$

+50

$$\begin{array}{r} +20 \text{ 8" MAPLE} \\ \hline 33 \end{array}$$

$$\begin{array}{r} +13 \text{ 8" ASH} \\ \hline 10 \end{array}$$

6+00

$$\begin{array}{r} +75 \text{ 3" TRI ASH} \\ \hline 27 \end{array}$$

+50

5+00

LT

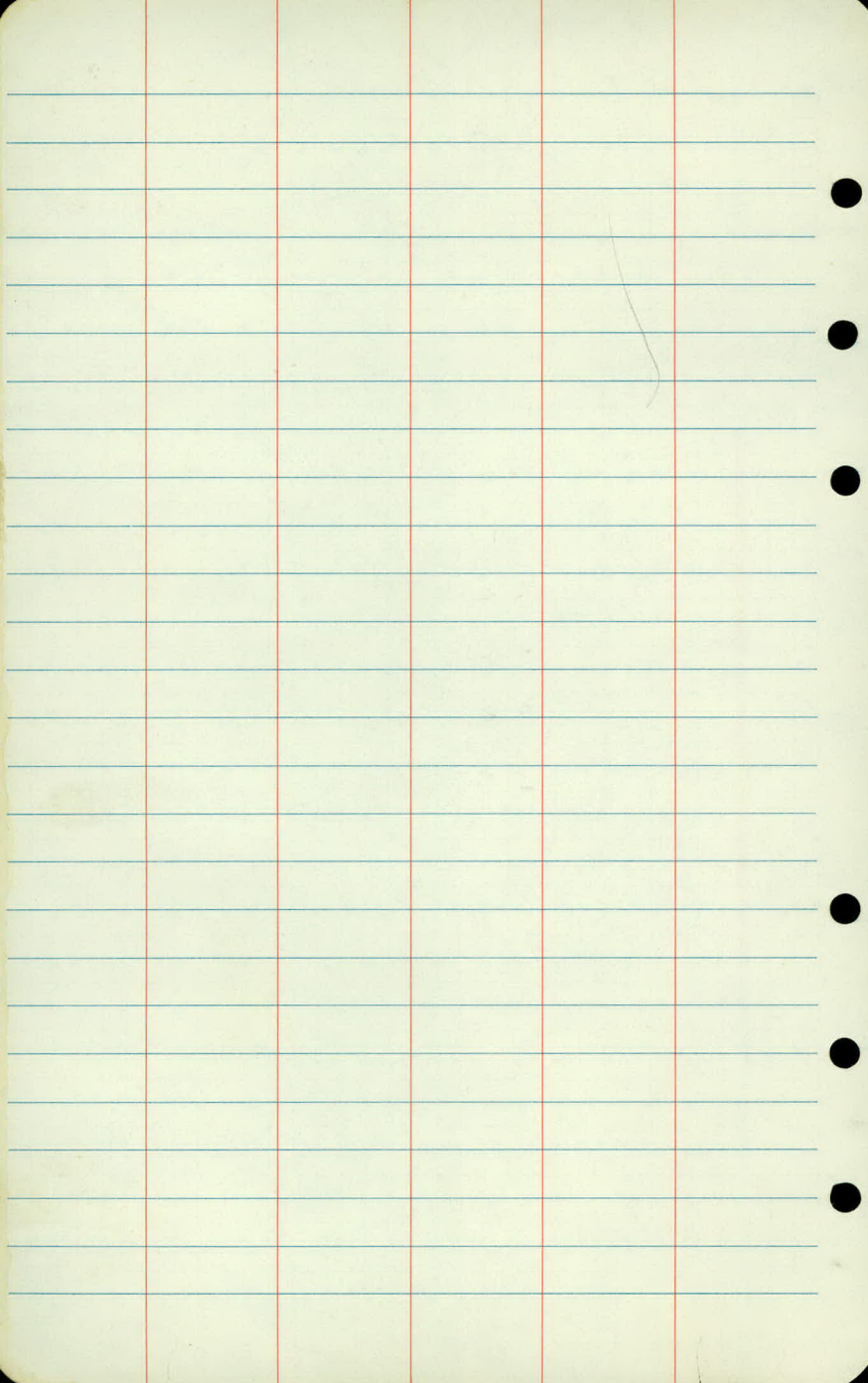
E

RT

VRULT

3







ML  
BL  
SS  
GJ

AUG 3, 06  
SUNNY 90°

4

PROFILE GRADES

STORM SEWER

FROST AVE

61+65 TO VAULT

| STA  | +    | π      | ✓ | -              | ELEV     |
|------|------|--------|---|----------------|----------|
| BM   | 1.25 | 909.51 |   |                | 908.26   |
| 0+00 |      |        |   | 901.88<br>7.63 |          |
| +35  |      |        |   | 901.41<br>8.1  |          |
| T.P. | 2.73 | 900.43 | ✓ | 11.61          | 897.90 ✓ |
| +64  |      |        |   | 896.03<br>4.6  |          |
| 1+00 |      |        |   | 895.63<br>5.0  |          |
| +50  |      |        |   | 895.63<br>5.0  |          |
| 2+00 |      |        |   | 895.33<br>5.3  |          |
| +50  |      |        |   | 895.23<br>5.4  |          |
| 3+00 |      |        |   | 895.43<br>5.2  |          |
| +50  |      |        |   | 895.43<br>5.2  |          |
| 4+00 |      |        |   | 895.53<br>5.1  |          |
| +50  |      |        |   | 896.13<br>4.5  |          |
| 5+00 |      |        |   | 897.63<br>3.0  |          |
| T.P. | 6.92 | 905.37 | ✓ | 2.18           | 898.45 ✓ |
| +50  |      |        |   | 899.27<br>6.1  |          |
| 6+00 |      |        |   | 899.57<br>5.8  |          |
| +49  |      |        |   | 901.57<br>3.8  |          |
| 7+00 |      |        |   | 900.87<br>4.5  |          |

Top 490 NW Cor FLOST + PROSPERITY

Spike & 5100

Sta

+

π

-

Elev

905.37

7+20

899.91

5.4

+51

896.72

8.65

T.P.

8.25

909.91

3.71

901.66

BM

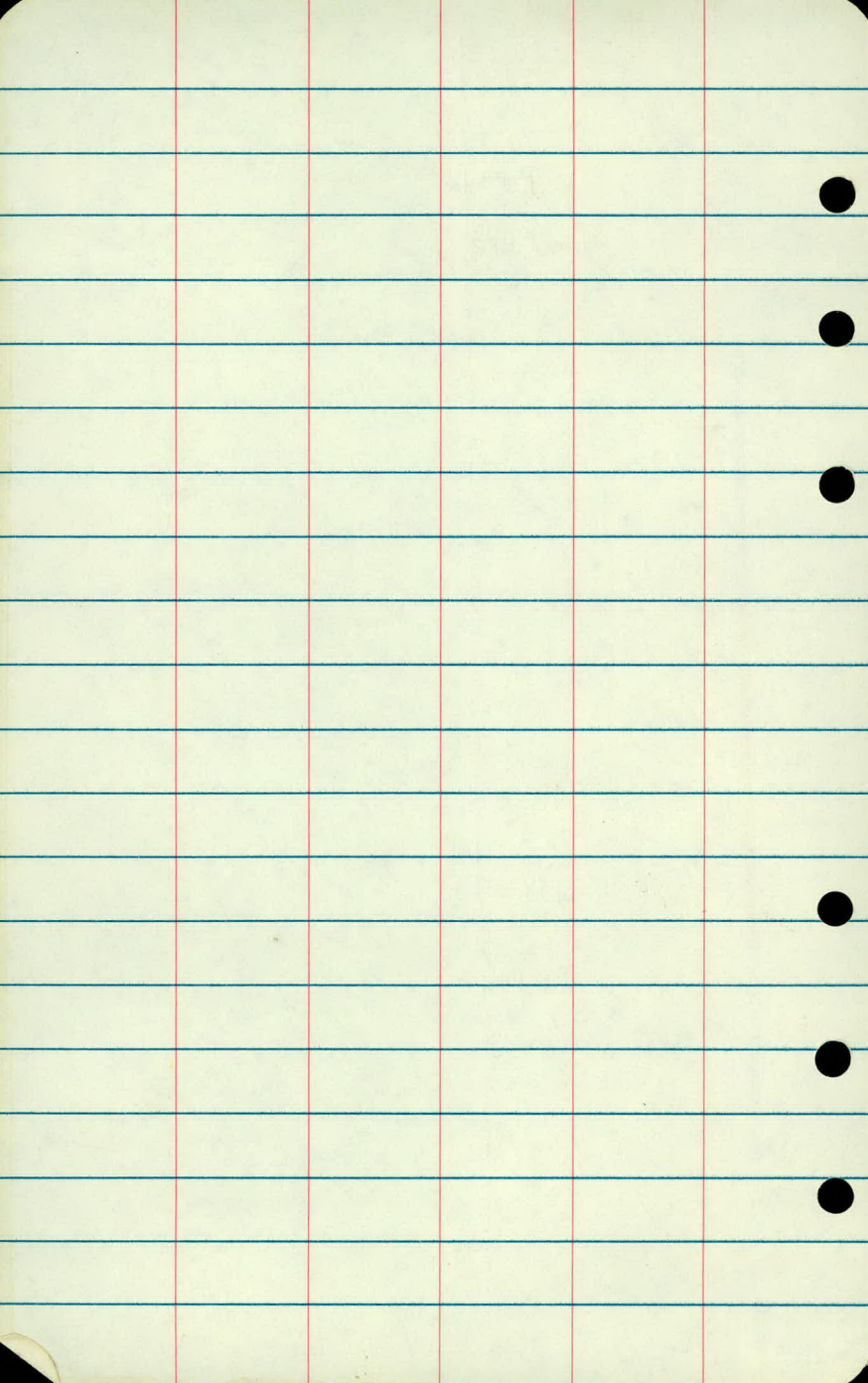
2.26

907.65



VAULT Top CASTING

Top Rock 6 + 48  $\frac{1}{2}$

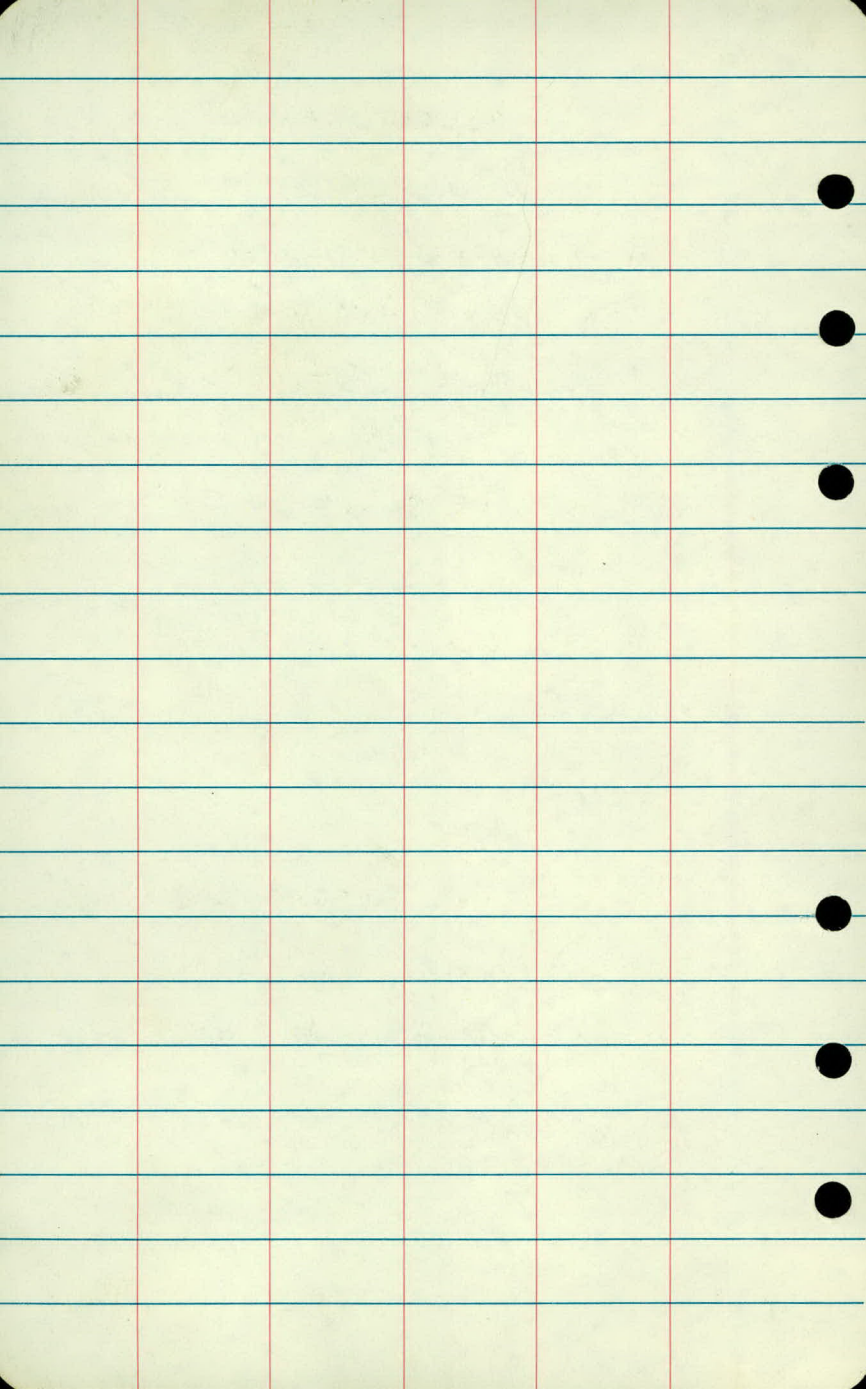


1  
FROST AVE.

Birmingham St. to White Bear Ave.

Soil Borings

62-628-03





BW  
DS  
MR

2-9-82  
Cin-10°50'

43+00 Lt. 15'

0-.8' Bit

.8'-4' Gr. SL bwn sl/pl

4'-6' SL bwn np

6'-7' Gr. SL dk bwn np

44+00 Lt. 15'

0-.8' Bit

.8'-7' LS bwn np

45+00 Lt. 12'

0-.8' Bit

.8'-1' SiL dk gray se pl

1'-2' SiL tan pl

2'-7' LS occ Gr. bwn np

BW  
DS  
MR

2-9-82  
Cir. -10°-5°

46+00 Lt. 12'

0-.8' Bit,

.8'-2' L dk bwn sepl

2'-4' Gr SL bwn slpl

4'-7' LS bwn np

47+00 Lt. 14'

0-.9 Bit

.9-4' L bwn sepl

4'-7' SL bwn slpl

48+00 Lt. 13'

0-.9 Bit

.9-4' CL bwn pl

4'-6' SL bwn slpl

6'-7' SL bwn pl

48+70 Lt. 12'

0-.9' Bit.

.9-1' L blk pl

1'-2' SiC tan pl

2'-4' SL lt bwn pl

4'-6' LS bwn np

6'-7' SiL bwn pl

50+00 Lt. 13'

0-.9 Bit

.9-1' SL bwn sepl

1'-6' SiL bwn pl

6'-7' Gr. SL bwn slpl

51+00 Lt. 13'

0-.9 Bit.

.9-2' SL bwn pl

2'-7' SiL bwn pl

BW  
DS  
MR

2-9-82  
C/O-10°-5°

52+00 Lt. 12'

0-.9 Bit

.9'-2' SL dk bwn sepl

2'-4' SiCL lt bwn pl

4'-7' SL bwn sl/pl

53+00 Lt. 12'

0-.9 Bit

.9'-4' SL lt bwn sl/pl

4'-6' LS lt bwn np

6'-7' SL bwn sepl

54+00 Lt. 12'

0-.9' Bit

.9'-2' L dk bwn pl

2'-7' Gr. SL lt bwn sl/pl



BW.  
DS  
MR

4  
2-9-82  
Cln-10-5'

55+00 Lt. 14'

0-.9' Bit

.9'-2' L dk bwn

2'-4' SiL tan sepl

4'-7' SL bwn slpl

56+00 Lt. 12'

0-.9 Bit

.9'-3' L bwn pl

3'-5' SiL dk bwn pl

5'-6' SiCL bwn pl

6'-7' SL bwn slpl

BW  
MR

2-16-82  
PC 25°-35°

57+00 Lt. 12'

0-.9 Bit

.9-3' SL bwn sepl

3'-5' L dk bwn sepl

5'-7' SiL tan pl

58+00 Lt. 12'

0-.9 Bit

.9-2' SL bwn slpl

2'-3' SiL lt bwn sepl

3'-4' SL bwn slpl

4'-7' LS tan np

60+00 Lt 12'

0-.9 Bit

.9-3' SL bwn pl

3'-5' SiCL blk pl

5'-6' SL bwn slpl

6'-10' SiL gray pl

10-12 LS lt bwn np

BW  
MR

2-16-82  
PC 25°35'

61+00 Lt. 12'

0-.8 Bit

.8-5' SL bwn sl/pl

5'-7' SL bwn pl

62+00 Lt. 12'

0-.8' Bit

.8-3' SL bwn sl/pl

3'-7' LS lt bwn np

64+00 Lt. 12'

0-.8 Bit

.8-2' LS lt bwn np

2'-4' L dk bwn sepl

4'-6' SL bwn pl

6'-7' CL bwn pl

BW  
MR

2-16-82  
PC 25°-35°

64+85 Lt. 13'

0-.8 Bit

.8-2' LS bwn np

2'-5' L dk gray pl

5'-7' SiCL gray pl

66+00 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-3' SiL bwn pl

3'-4' SL bwn slpl

4'-7' SiCL bwn pl

7'-8' SiC dk bwn pl

8'-12' SiCL bwn pl

67+00 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-7' SiCL bwn pl



BW  
MR

2-16-82  
PC 25°-35°

68+20 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-3' L bwn sepl

3'-6' LS bwn np

6'-7' SL bwn sepl

69+00 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-3' SiL bwn pl

3'-7' CL bwn pl

69+90 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-4' L bwn sepl

4'-6' SiCL dk bwn pl

6'-7' SiL bwn-gray pl

BW  
MR

2-16-82  
PC 25°-35°

71+00 Lt. 12'

0-.8 Bit

.8-2' SL bwn slpl

2'-4' SiCL bwn pl

4'-6' CL bwn pl

6'-8' SL bwn slpl

8'-10' SiL bwn pl

10'-12' LS bwn np

72+00 Lt. 12'

0-.8 Bit

.8-2' SL lt bwn slpl

2'-4' SiL bwn sepl

4'-5' SL bwn slpl

5'-7' CL bwn pl

BW  
MR

2-16-82  
PC 25°-35

73+00 Lt. 12'

0-.8 Bit

.8-7' SL occ. gr. bwn sepl

73+90 Lt. 12'

0-.8 Bit

.8-2' SL bwn s/pl

2'-4' SiL bwn sepl

4'-6' SL bwn sepl

6'-7' LS bwn np

75+00 Lt. 12'

0-.8 Bit

.8-7' SL bwn sepl

BW  
MR

2-17-82  
PC 24°36'

76+00 Lt. 12'

0-.8 Bit

.8-7' LS lt. bwn np

77+00 Lt. 12'

0-.8 Bit

.8-5' SL bwn sl pl

5'-7' SL bwn pl

78+00 Lt. 12'

0-.8 Bit

.8-7' Gr. SL bwn sl pl

79+10 Lt. 12'

0-.8 Bit

.8-7' SL occ. gr. bwn sl pl



BW  
MR

2-17-82  
PC 24-36

80+00 Lt. 12'

0-.8 Bit

.8-3' LS bwn np

3'-4' SL bwn sl pl

4'-7' LS bwn np

81+00 Lt. 12'

0-.8 Bit

.8-2' SL bwn pl

2'-4' LS bwn np

4'-7' SL bwn sl pl

81+80 Lt. 12'

0-.8 Bit

.8-5' L 1+ bwn sepl

5'-7' CL 1+ bwn pl

BW  
MR

2-17-82  
PC 24°-36°

82+90 Lt. 12'

0-.8 Bit

.8-5' SL 1+ bwn slp/

5'-7' LS 1+ bwn np

84+00 Lt. 12'

0-.8 Bit

.8-4' SL bwn slp/

4'-7' LS bwn np

ML  
MR  
RL

Cloudy 30°  
Dec 21, 82

TOPOGRAPHY  
FROST AVE  
EASEMENT

0+00 = 53+93.53

LT

E

ST

+50

$$\begin{array}{r} +29 \text{ 12" ELM} \\ \hline 15 \end{array}$$

2

$$\begin{array}{r} +85 \text{ 10" B.E.} \\ \hline 4 \end{array}$$

$$\begin{array}{r} +65 \text{ 4" ELM} \\ \hline 13 \end{array}$$

$$\begin{array}{r} +51 \text{ 18" ELM} \\ \hline 13 \end{array}$$

+50

$$\begin{array}{r} +43 \text{ 8" ELM} \\ \hline 10 \\ +31 \text{ 2" C.W.} \\ \hline 7 \end{array}$$

$$\begin{array}{r} +29 \text{ C.W. 1" } \\ \hline 5 \\ +05 \text{ GAR (NE COR)} \\ \hline 1 \\ +03 \text{ 10" ELM} \\ \hline 9 \end{array}$$

1+00

$$\begin{array}{r} +00 \text{ GAR} \\ \hline 11 \end{array}$$

$$\begin{array}{r} +50 \text{ GAR (SE COR)} \\ \hline 10 \end{array}$$

+50

$$\begin{array}{r} +32 \text{ 4" C.W.} \\ \hline 2 \\ +29 \text{ COR FE} \\ \hline 1 \\ +36 \text{ STAMP} \\ \hline 4 \\ +26 \text{ BUSH} \\ \hline 5 \end{array}$$

$$\begin{array}{r} +24 \text{ BUSH} \\ \hline 3 \end{array}$$

$$\begin{array}{r} +07 \text{ 10" PINE} \\ \hline 16 \end{array}$$

$$\begin{array}{r} +93 \text{ BUSH} \\ \hline 3 \end{array}$$

$$\begin{array}{r} +85 \text{ BUSH} \\ \hline 4 \end{array}$$

$$\begin{array}{r} +65 \text{ 4" MAP} \\ \hline 6 \end{array}$$

$$\begin{array}{r} +58 \text{ COR FE (WOVEN WOOD)} \\ \hline 1 \end{array}$$

$$\begin{array}{r} +50 \text{ PP} \\ \hline 1 \end{array}$$

$$\begin{array}{r} +43 \text{ BUSH} \\ \hline 1 \end{array}$$

$$\begin{array}{r} +08 \text{ 2" C.W.} \\ \hline 1 \\ +06 \text{ 1" MAPLE} \\ \hline 1 \end{array}$$

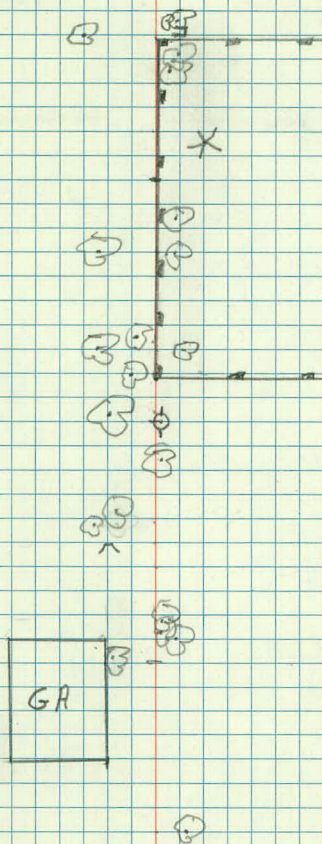
$$\begin{array}{r} +05 \text{ 3" ELM} \\ \hline 4 \end{array}$$

$$\begin{array}{r} +65 \text{ 3" ELM} \\ \hline 6 \end{array}$$

0+00

0+00 = 53+93.53





+71  $\frac{92}{5}$

+50

ML  
MR  
RL

Sunny 25°

Dec 21, 82

PROFILE GRADES

FROST AVE

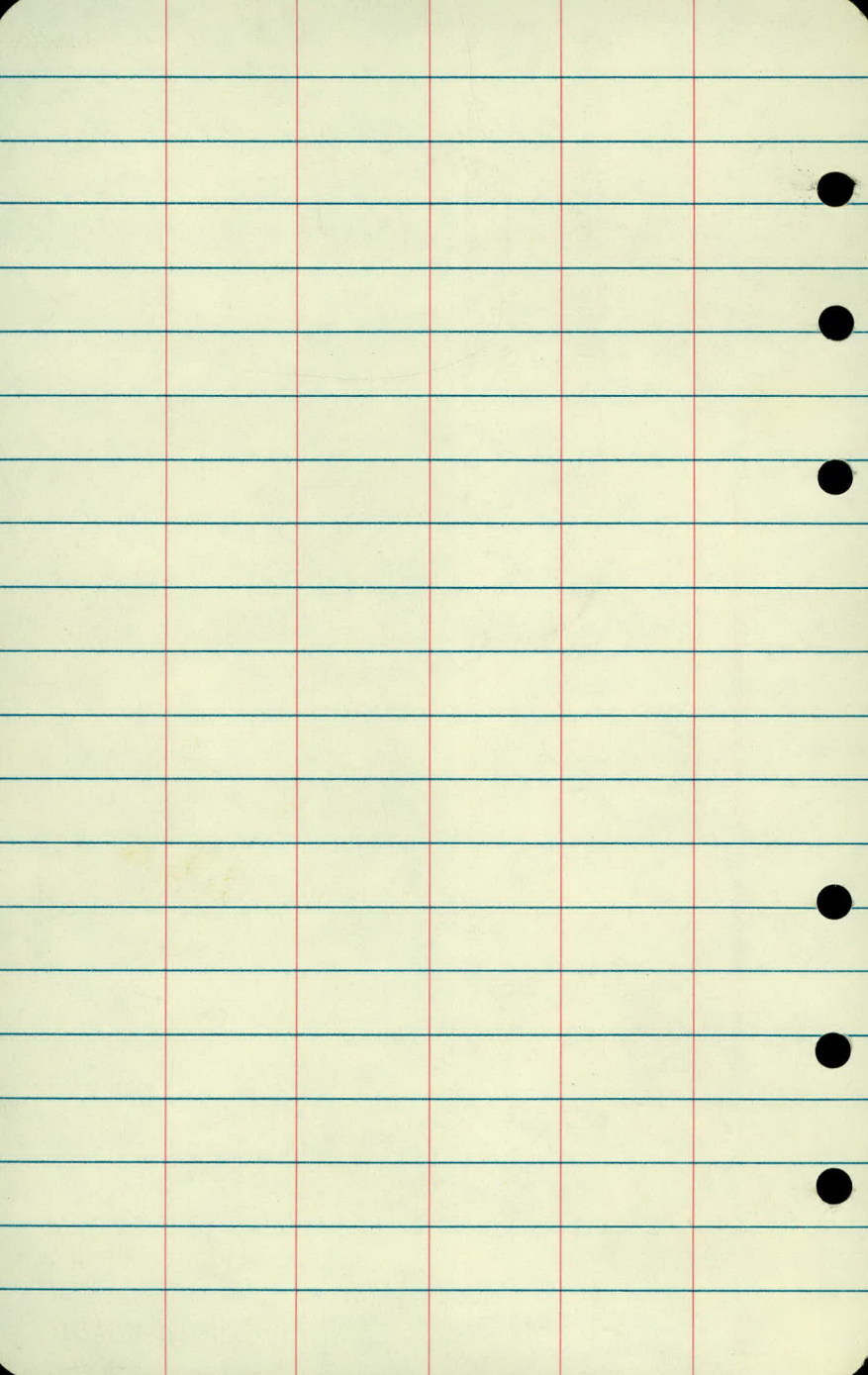
EASEMENT @ 53+84.73

300' To NORTH

| STA  | +    | $\Sigma$ | -    | ELF ✓  |
|------|------|----------|------|--------|
| B.M. | 4.65 | 913.21   |      | 908.56 |
| 0+00 |      |          | 9.72 | 903.49 |
| +18  |      |          | 9.81 | 903.40 |
| +20  |      |          | 9.30 | 903.91 |
| +50  |      |          | 8.2  | 905.0  |
| 1+00 |      |          | 5.9  | 907.9  |
| +27  |      |          | 4.9  | 908.3  |
| +50  |      |          | 5.4  | 907.8  |
| +75  |      |          | 5.9  | 907.3  |
| 2+00 |      |          | 7.4  | 905.8  |
| +29  |      |          | 8.6  | 904.6  |
| +35  |      |          | 9.7  | 903.5  |
| +50  |      |          | 10.4 | 902.8  |
| +64  |      |          | 10.5 | 902.7  |
| 3+00 |      |          | 9.9  | 903.3  |
| B.M. |      |          | 4.65 | 908.56 |



Top HYD NW BARCLAY + FROST



FROST AVE → TO W.B.A.

# STRUCTURAL DATA TYPE

#3

|          |                                     |           |                          |              |                          |
|----------|-------------------------------------|-----------|--------------------------|--------------|--------------------------|
| STORM    | <input checked="" type="checkbox"/> | ELECTRIC  | <input type="checkbox"/> | WATER        | <input type="checkbox"/> |
| SANITARY | <input checked="" type="checkbox"/> | TELEPHONE | <input type="checkbox"/> | OTHER        | <input type="checkbox"/> |
| STATION  | LEFT                                | RIGHT     | SIZE                     |              |                          |
| 45+75    | 18'                                 |           | 9"                       | INCH CASTING |                          |

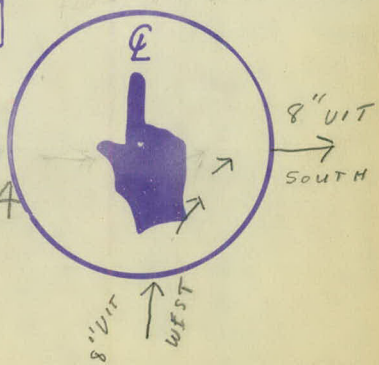
|                                               |                     |
|-----------------------------------------------|---------------------|
| TYPE OF CONST.                                | COMMENTS            |
| BLOCK                                         | 2.1 SECTION         |
| BRICK                                         | 4.8 CONCENTRIC CONE |
| SECTIONAL <input checked="" type="checkbox"/> |                     |

|                 |                                       |     |       |          |
|-----------------|---------------------------------------|-----|-------|----------|
| ADJUSTING RINGS | TYPE                                  | NO. | DEPTH | COMMENTS |
| BLOCK           |                                       |     |       |          |
| BRICK           |                                       |     |       |          |
| CONC. RINGS     | 4 <input checked="" type="checkbox"/> | 4   | 0.8   |          |

|                                                                                                                                 |             |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|
| DEPTH FROM<br>BOTTOM OF M.H.<br>TO TOP OF CASTING<br>DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING<br>ETC.<br>INV. | ELEV.       |
|                                                                                                                                 | 8.33 900.67 |
|                                                                                                                                 |             |
|                                                                                                                                 |             |
|                                                                                                                                 |             |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

|                 |           |
|-----------------|-----------|
| DESIGN          | 62-628-04 |
| ELEVATION - TOP | 909.00    |
| FINAL ELEVATION | 908.89    |
| DIFFERENCES     | 0.11      |



|             |          |
|-------------|----------|
| ADJUST      |          |
| RECONSTRUCT | OK Leave |

# STRUCTURAL DATA TYPE

#4

|          |   |           |       |       |              |
|----------|---|-----------|-------|-------|--------------|
| STORM    |   | ELECTRIC  |       | WATER |              |
| SANITARY | ✓ | TELEPHONE |       | OTHER |              |
| STATION  |   | LEFT      | RIGHT | SIZE  |              |
| 49+03    |   | 18'       |       | 7"    | INCH CASTING |

|                |   |                      |
|----------------|---|----------------------|
| TYPE OF CONST. |   | COMMENTS             |
| BLOCK          |   | 4.1' SECTION         |
| BRICK          |   | 5.0' CONCENTRIC CONF |
| SECTIONAL      | ✓ |                      |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | ✓    | 1   | 0.2   |          |

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

ELEV.  
10.50 897.79

906.13  
902.46  
3.67

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

FINO  
8" VIT →



50.  
→  
8" VIT

DESIGN

ELEVATION - TOP 908.29  
FINAL ELEVATION 906.71  
DIFFERENCES 1.58

ADJUST

RECONSTRUCT



# STRUCTURAL DATA TYPE

#5

|          |   |           |       |       |              |  |
|----------|---|-----------|-------|-------|--------------|--|
| STORM    | ✓ | ELECTRIC  |       | WATER |              |  |
| SANITARY |   | TELEPHONE |       | OTHER |              |  |
| STATION  |   | LEFT      | RIGHT | SIZE  |              |  |
| 350 + 64 |   |           |       |       | INCH CASTING |  |

|                |  |                      |
|----------------|--|----------------------|
| TYPE OF CONST. |  | COMMENTS             |
| BLOCK          |  | COVER CONCRETED SHUT |
| BRICK          |  |                      |
| SECTIONAL      |  |                      |

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

|                                                            |  |       |  |  |
|------------------------------------------------------------|--|-------|--|--|
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING           |  | ELEV. |  |  |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |  |       |  |  |
| ETC.                                                       |  |       |  |  |
| INV.                                                       |  |       |  |  |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN  
ELEVATION - TOP  
FINAL ELEVATION  
DIFFERENCES  
ADJUST  
RECONSTRUCT



REMOVE

# STRUCTURAL DATA TYPE

#6

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY | ✓    | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE |              |  |
| 52+33    | 18'  |           | 9"   | INCH CASTING |  |

TYPE OF CONST.

BLOCK

BRICK

SECTIONAL ✓

COMMENTS

3' SECTION

4.3' CONCENTRIC CONE

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

✓

6

1.5

DEPTH FROM  
BOTTOM OF M.H.

ELEV.

TO TOP OF CASTING

9.82 895.47

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

9.70

ETC.

INV.

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

NO.  
8" VIT



SO.  
8" VIT

DESIGN

ELEVATION - TOP

905.29

FINAL ELEVATION

903.89

DIFFERENCES

1.40

ADJUST

RECONSTRUCT

## STRUCTURAL DATA

TYPE

MH #7

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

54+41

✓

9

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

✓

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

✓

8

2.4

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

ELEV.

10.2

892.4

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

902.6

FINAL ELEVATION

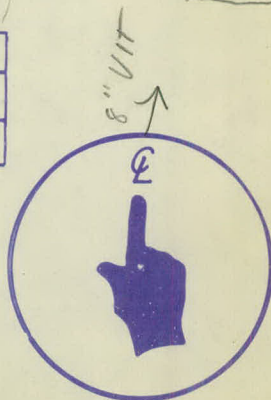
900.98

DIFFERENCES

1.62

ADJUST

RECONSTRUCT



DEAD END



## STRUCTURAL DATA

TYPE

#8

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY | X    | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE |              |  |
| 54 + 41  |      | 21        | 9"   | INCH CASTING |  |

TYPE OF CONST.

BLOCK

BRICK

SECTIONAL

COMMENTS

3'0 SECTION

4.4 CONCENTRIC CONE

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

2

74

1.4

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

ELEV.

9.74, 893.56

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

902.01

FINAL ELEVATION

900.92

DIFFERENCES

1.09

ADJUST

RECONSTRUCT

- 6.8'

DEAD END



8" VIT



# STRUCTURAL DATA TYPE

#9

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY | ✓    | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE |              |  |
| 55+64    | ✓    |           | 9    | INCH CASTING |  |

TYPE OF CONST.

BLOCK

BRICK

SECTIONAL

COMMENTS

2.4' SECTION

4.4' CONCENTRIC CONC

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

✓

4

0.9

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

ELEV.

8.80 891.66

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

900.46

FINAL ELEVATION

899.18

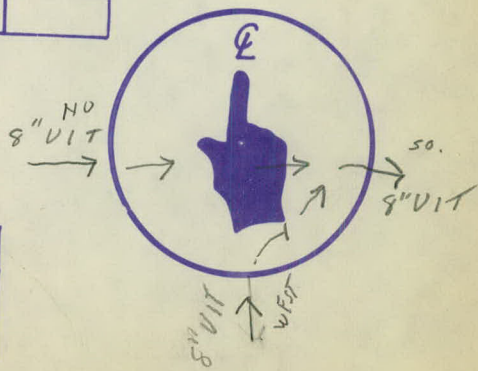
DIFFERENCES

1.28

ADJUST

RECONSTRUCT

6.8'



# STRUCTURAL DATA TYPE

#10

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY |      | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE | INCH CASTING |  |
| 55+64    |      | ✓         | 7    |              |  |

|                |                                                 |
|----------------|-------------------------------------------------|
| TYPE OF CONST. | COMMENTS<br>2.2' SECTION<br>4.5 CONCENTRIC CORR |
| BLOCK          |                                                 |
| BRICK          |                                                 |
| SECTIONAL      | ✓                                               |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | ✓    | 4   | 0.9   |          |

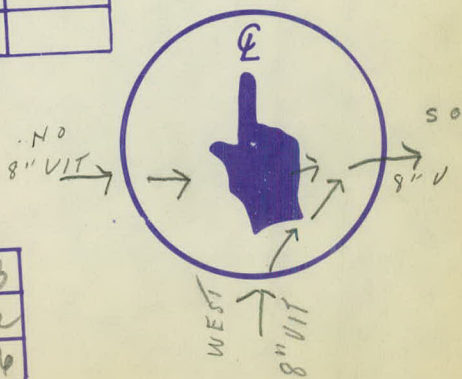
DEPTH FROM  
BOTTOM OF M.H.  
TO TOP OF CASTING  
DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING  
ETC.  
INV.

| ELEV. |        |
|-------|--------|
| 8.74  | 891.54 |
|       |        |
|       |        |
|       |        |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN  
ELEVATION - TOP  
FINAL ELEVATION  
DIFFERENCES  
ADJUST  
RECONSTRUCT

|        |
|--------|
| 100.28 |
| 899.12 |
| 1.16   |



6.8'

# STRUCTURAL DATA TYPE

#11

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY |      | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE |              |  |
| 56+80    | ✓    |           | 9"   | INCH CASTING |  |

|                |                                     |
|----------------|-------------------------------------|
| TYPE OF CONST. | COMMENTS                            |
| BLOCK          | 3.1 SECTION<br>4.4' CONCENTRIC CONE |
| BRICK          |                                     |
| SECTIONAL ✓    |                                     |

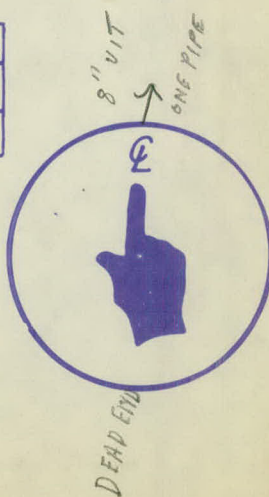
|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | ✓    | 4   | 0.8   |          |

|                                                            |        |
|------------------------------------------------------------|--------|
| DEPTH FROM<br>BOTTOM OF M.H.<br>TO TOP OF CASTING          | ELEV.  |
| 9.29                                                       | 889.98 |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |        |
| ETC.                                                       |        |
| INV.                                                       |        |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

|                 |        |
|-----------------|--------|
| DESIGN          |        |
| ELEVATION - TOP | 899.27 |
| FINAL ELEVATION | 897.62 |
| DIFFERENCES     | 1.65   |

ADJUST  
RECONSTRUCT 6.9'





# STRUCTURAL DATA TYPE

#12

|          |      |           |      |                 |  |
|----------|------|-----------|------|-----------------|--|
| STORM    |      | ELECTRIC  |      | WATER           |  |
| SANITARY | X    | TELEPHONE |      | OTHER           |  |
| STATION  | LEFT | RIGHT     | SIZE | 7" INCH CASTING |  |
| 58+99    | 17   |           |      |                 |  |

TYPE OF CONST.

COMMENTS

BLOCK

CONC

BRICK

SECTIONAL

X

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

3

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

ELEV.

10.96 887.84

8.1

4.5'  
4.8

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

898.80

FINAL ELEVATION

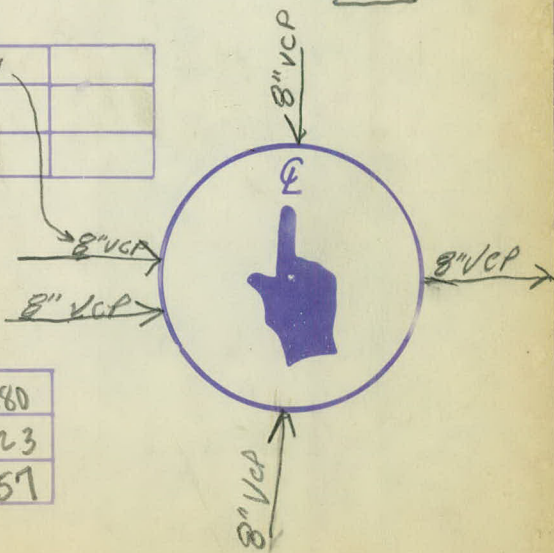
898.23

DIFFERENCES

.57

ADJUST

RECONSTRUCT





# STRUCTURAL DATA TYPE

#13

|                                              |           |       |                 |
|----------------------------------------------|-----------|-------|-----------------|
| STORM                                        | ELECTRIC  | WATER |                 |
| SANITARY <input checked="" type="checkbox"/> | TELEPHONE | OTHER |                 |
| STATION                                      | LEFT      | RIGHT | SIZE            |
| 61+21                                        | 17        |       | 7" INCH CASTING |

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL ☒

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

3

CONC

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

ELEV.

12.0 888.66

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

900.66

FINAL ELEVATION

899.81

DIFFERENCES

.85

ADJUST

RECONSTRUCT

10.6



# STRUCTURAL DATA TYPE

#14

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    |      | ELECTRIC  |      | WATER        |  |
| SANITARY | X    | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE | 7'           |  |
| 63+60    | 17   |           |      | INCH CASTING |  |

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

X

ECCEN

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

4

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

ELEV.

16.0 890.36

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

12.0 12.0

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

906.36

FINAL ELEVATION

904.88

DIFFERENCES

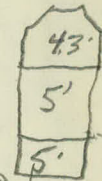
1.48

ADJUST

RECONSTRUCT

8" VCP

8" VCP



8" VCP

8" VCP

8" VCP

9.5'

# STRUCTURAL DATA TYPE

#15

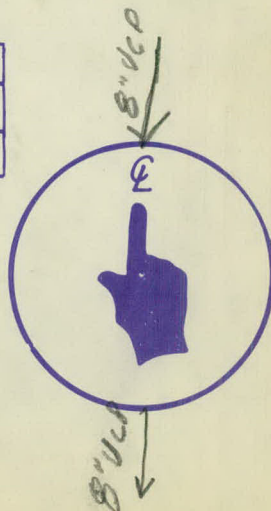
|                                              |           |       |                 |
|----------------------------------------------|-----------|-------|-----------------|
| STORM                                        | ELECTRIC  | WATER |                 |
| SANITARY <input checked="" type="checkbox"/> | TELEPHONE | OTHER |                 |
| STATION                                      | LEFT      | RIGHT | SIZE            |
| 65+76                                        | 17        |       | 7" INCH CASTING |

|                                               |                      |
|-----------------------------------------------|----------------------|
| TYPE OF CONST.                                | COMMENTS<br><br>CONC |
| BLOCK                                         |                      |
| BRICK                                         |                      |
| SECTIONAL <input checked="" type="checkbox"/> |                      |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     |      | 5   |       |          |

|                                                            |        |        |
|------------------------------------------------------------|--------|--------|
| DEPTH FROM<br>BOTTOM OF M.H.                               | ELEV.  |        |
| TO TOP OF CASTING                                          | 16.15  | 890.24 |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |        |        |
| ETC.                                                       |        |        |
| INV.                                                       |        |        |
| SIZES OF ALL<br>PIPES AND<br>DIRECTION OF<br>FLOW          |        |        |
| DESIGN                                                     |        |        |
| ELEVATION - TOP                                            | 906.39 |        |
| FINAL ELEVATION                                            | 905.37 |        |
| DIFFERENCES                                                | 1.02   |        |
| ADJUST                                                     |        |        |
| RECONSTRUCT                                                |        |        |

4.5  
5'  
5'



## STRUCTURAL DATA

TYPE

CB 16

|          |   |           |      |       |              |
|----------|---|-----------|------|-------|--------------|
| STORM    | ✓ | ELECTRIC  |      | WATER |              |
| SANITARY |   | TELEPHONE |      | OTHER |              |
| STATION  |   | RIGHT     | LEFT | SIZE  |              |
| 67+55    |   |           | 24   |       | INCH CASTING |

| TYPE OF CONST. |   | COMMENTS |        |        |
|----------------|---|----------|--------|--------|
| BLOCK          |   | 908.46   | 910.30 | 912.40 |
| BRICK          | X | 1.74     | 5.10   | 4.66   |
| SECTIONAL      |   | 910.40   | 913.30 | 915.74 |

| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
|-----------------|------|-----|-------|----------|
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | X    | 2   |       |          |

DEPTH FROM  
BOTTOM OF M.H.

TO TOP OF CASTING

ELEV.

3.3

908.30

TOP CAST

DISTANCE

FROM HIGHEST

FLOW LINE TO

TOP OF CASTING

ETC.

INV.

SIZES OF ALL

PIPES AND

DIRECTION OF

FLOW

DESIGN

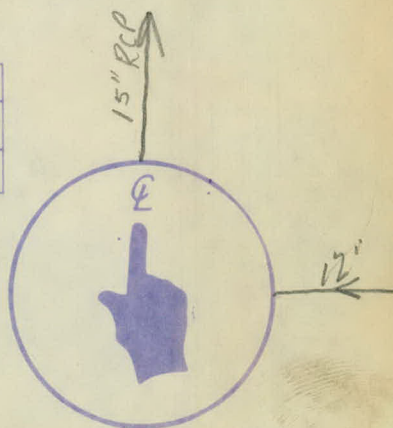
ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



REMOVE



# STRUCTURAL DATA

TYPE *MH 18*

STORM

ELECTRIC

WATER

SANITARY ☒

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

*7"*  
INCH CASTING

*67+95*

TYPE OF CONST.

COMMENTS

BLOCK

*CONC*

BRICK

SECTIONAL ☒

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

*6*

DEPTH FROM  
BOTTOM OF M.H.

ELEV.

TO TOP OF CASTING

*14.85* *891.16*

DISTANCE

FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

*10.85*

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

*906.01*

FINAL ELEVATION

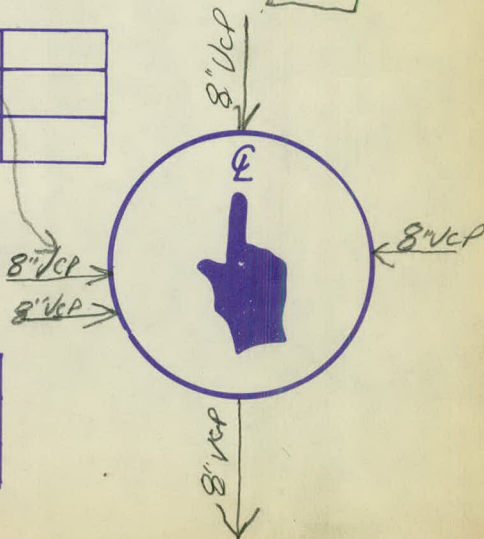
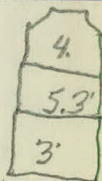
*904.27*

DIFFERENCES

*1.74*

ADJUST

RECONSTRUCT



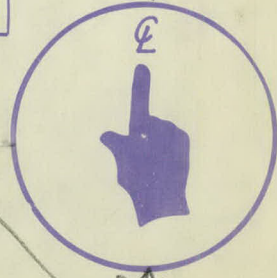
# STRUCTURAL DATA <sup>Top</sup>

## TYPE CB 19

|          |                                     |           |                          |                  |                          |
|----------|-------------------------------------|-----------|--------------------------|------------------|--------------------------|
| STORM    | <input checked="" type="checkbox"/> | ELECTRIC  | <input type="checkbox"/> | WATER            | <input type="checkbox"/> |
| SANITARY | <input type="checkbox"/>            | TELEPHONE | <input type="checkbox"/> | OTHER            | <input type="checkbox"/> |
| STATION  | LEFT                                | RIGHT     | SIZE                     | 11" INCH CASTING |                          |
| 68+18    | 24                                  |           |                          |                  |                          |

|                |                                     |                            |
|----------------|-------------------------------------|----------------------------|
| TYPE OF CONST. |                                     | COMMENTS                   |
| BLOCK          | <input checked="" type="checkbox"/> | C.B.<br><br>MEXICAN HAT 3' |
| BRICK          | <input type="checkbox"/>            |                            |
| SECTIONAL      | <input type="checkbox"/>            |                            |

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

|                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|-----|--|--|--|--|--|
| DEPTH FROM<br>BOTTOM OF M.H.<br>TO TOP OF CASTING<br><br>DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING<br><br>ETC.<br><br>INV. | ELEV. | <div style="display: flex; justify-content: space-between;"> <div> <table border="1" style="width: 100%;"> <tr><td>5.40</td><td></td></tr> <tr><td>4.0</td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> </div> <div style="text-align: right;">  <p style="text-align: center;">3'</p> <p style="text-align: center;">15" RCP</p> </div> </div> <div style="margin-top: 20px;"> <p style="text-align: center;">18" RCP</p>  <p style="text-align: center;">15" RCP</p> </div> | 5.40   |  | 4.0 |  |  |  |  |  |
| 5.40                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
| 4.0                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
|                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
|                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
| SIZES OF ALL<br>PIPES AND<br>DIRECTION OF<br>FLOW                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
| DESIGN<br>ELEVATION - TOP<br>FINAL ELEVATION<br>DIFFERENCES<br>ADJUST<br>RECONSTRUCT                                                        |       | <table border="1" style="width: 100%;"> <tr><td>905.74</td></tr> <tr><td></td></tr> <tr><td></td></tr> </table> <div style="text-align: right; margin-top: 20px;"> <p style="font-size: 2em; transform: rotate(-15deg);">Remove</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 905.74 |  |     |  |  |  |  |  |
| 905.74                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
|                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |
|                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |  |     |  |  |  |  |  |

# STRUCTURAL DATA

TYPE *MH 20*

|              |           |           |      |                 |  |
|--------------|-----------|-----------|------|-----------------|--|
| STORM        |           | ELECTRIC  |      | WATER           |  |
| SANITARY     | ✓         | TELEPHONE |      | OTHER           |  |
| STATION      | LEFT      | RIGHT     | SIZE | 7" INCH CASTING |  |
| <i>70+08</i> | <i>17</i> |           |      |                 |  |

|                |                   |  |
|----------------|-------------------|--|
| TYPE OF CONST. | COMMENTS          |  |
| BLOCK          | <i>CONCENTRIC</i> |  |
| BRICK          |                   |  |
| SECTIONAL      |                   |  |

|                 |      |          |       |          |
|-----------------|------|----------|-------|----------|
| ADJUSTING RINGS | TYPE | NO.      | DEPTH | COMMENTS |
| BLOCK           |      |          |       |          |
| BRICK           |      |          |       |          |
| CONC. RINGS     |      | <i>4</i> |       |          |

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

|             |               |
|-------------|---------------|
|             | ELEV.         |
| <i>13.5</i> | <i>891.58</i> |

|             |
|-------------|
| <i>4.5</i>  |
| <i>5.5</i>  |
| <i>3.0'</i> |

*894.58*

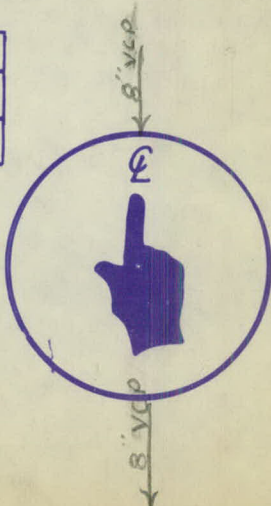
SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |               |
|-----------------|---------------|
| ELEVATION - TOP | <i>905.08</i> |
| INAL ELEVATION  | <i>903.60</i> |
| DIFFERENCES     | <i>1.48</i>   |

ADJUST

RECONSTRUCT



*10'*



# STRUCTURAL DATA

TYPE CB 21

STORM



ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

71+56.

98

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.

ELEV.

902.77 TC

TO TOP OF CASTING

8.2.

FR 02 E

1-15-79

DISTANCE

FROM HIGHEST

FLOW LINE TO

TOP OF CASTING

ETC.

INV.

SIZES OF ALL

PIPES AND

DIRECTION OF

FLOW

DESIGN

ELEVATION - TOP

NAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT

58"



58"

OK

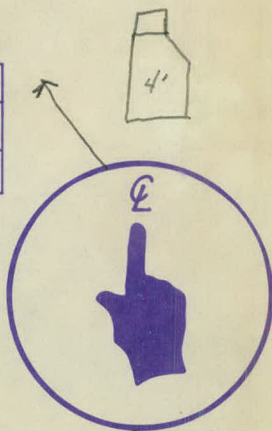


# STRUCTURAL DATA

## TYPE

MH 22

|                                                            |                                     |           |                          |              |                          |
|------------------------------------------------------------|-------------------------------------|-----------|--------------------------|--------------|--------------------------|
| STORM                                                      | <input checked="" type="checkbox"/> | ELECTRIC  | <input type="checkbox"/> | WATER        | <input type="checkbox"/> |
| SANITARY                                                   | <input type="checkbox"/>            | TELEPHONE | <input type="checkbox"/> | OTHER        | <input type="checkbox"/> |
| STATION                                                    | RIGHT                               | LEFT      | SIZE                     |              |                          |
| 71+67                                                      |                                     | 24        | 7"                       | INCH CASTING |                          |
| TYPE OF CONST.                                             | COMMENTS                            |           |                          |              |                          |
| BLOCK                                                      |                                     |           |                          |              |                          |
| BRICK                                                      |                                     |           |                          |              |                          |
| SECTIONAL                                                  | <input checked="" type="checkbox"/> |           |                          |              |                          |
| ADJUSTING RINGS                                            | TYPE                                | NO.       | DEPTH                    | COMMENTS     |                          |
| BLOCK                                                      |                                     |           |                          |              |                          |
| BRICK                                                      |                                     |           |                          |              |                          |
| CONC. RINGS                                                | <input checked="" type="checkbox"/> | 2         |                          |              |                          |
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING           | ELEV.                               |           |                          |              |                          |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING | 6.6                                 |           |                          |              |                          |
| ETC.                                                       |                                     |           |                          |              |                          |
| INV.                                                       |                                     |           |                          |              |                          |
| SIZES OF ALL<br>PIPES AND<br>DIRECTION OF<br>FLOW          |                                     |           |                          |              |                          |
| DESIGN                                                     |                                     |           |                          |              |                          |
| ELEVATION - TOP                                            | 905.41                              |           |                          |              |                          |
| FINAL ELEVATION                                            |                                     |           |                          |              |                          |
| DIFFERENCES                                                |                                     |           |                          |              |                          |
| ADJUST                                                     |                                     |           |                          |              |                          |
| RECONSTRUCT                                                |                                     |           |                          |              |                          |



Remove

# STRUCTURAL DATA TYPE

MH 23

|          |                                     |           |      |              |  |
|----------|-------------------------------------|-----------|------|--------------|--|
| STORM    | <input checked="" type="checkbox"/> | ELECTRIC  |      | WATER        |  |
| SANITARY |                                     | TELEPHONE |      | OTHER        |  |
| STATION  | RIGHT                               | LEFT      | SIZE |              |  |
| 71+76    |                                     | 26        |      | INCH CASTING |  |

|                |            |
|----------------|------------|
| TYPE OF CONST. | COMMENTS   |
| BLOCK          | No Casting |
| 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.

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Has Plywood  
OVER IT

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN



ELEVATION - TOP  
FINAL ELEVATION  
DIFFERENCES

|  |
|--|
|  |
|  |
|  |

ADJUST

RECONSTRUCT

# STRUCTURAL DATA TYPE

MN 24

|          |             |       |                 |
|----------|-------------|-------|-----------------|
| STORM    | ELECTRIC    | WATER |                 |
| SANITARY | ✓ TELEPHONE | OTHER |                 |
| STATION  | LEFT        | RIGHT | SIZE            |
| 72+25    | 17          |       | 7" INCH CASTING |

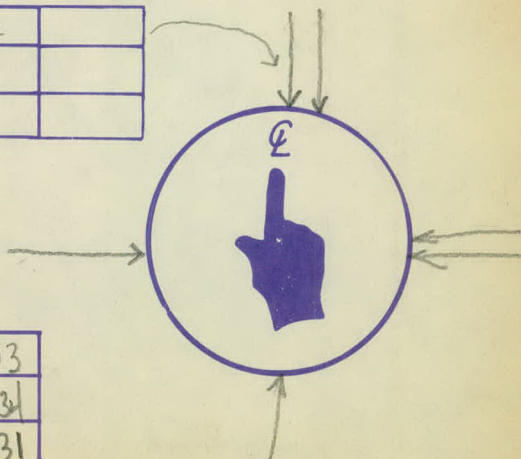
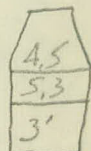
|                |            |
|----------------|------------|
| TYPE OF CONST. | COMMENTS   |
| BLOCK          | CONCENTRIC |
| BRICK          |            |
| SECTIONAL      |            |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| 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. |        |
| 15.0' | 892.03 |

|     |  |
|-----|--|
| 9.4 |  |
|     |  |
|     |  |



SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |        |
|-----------------|--------|
| ELEVATION - TOP | 907.03 |
| FINAL ELEVATION | 907.31 |
| DIFFERENCES     | +0.31  |

ADJUST

RECONSTRUCT



# STRUCTURAL DATA TYPE

MH 25

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

RIGHT

LEFT

SIZE

No CASTING  
INCH CASTING

72+69

28

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

X

ECC.

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM  
BOTTOM OF M.H.

ELEV.

TO TOP OF CASTING

13.3

895.66

909.06  
908.66  
0.4

DISTANCE

FROM HIGHEST

FLOW LINE TO

TOP OF CASTING

6.0

ETC.

INV.

SIZES OF ALL

PIPES AND

DIRECTION OF

FLOW

DESIGN

ELEVATION - TOP

908.96

FINAL ELEVATION

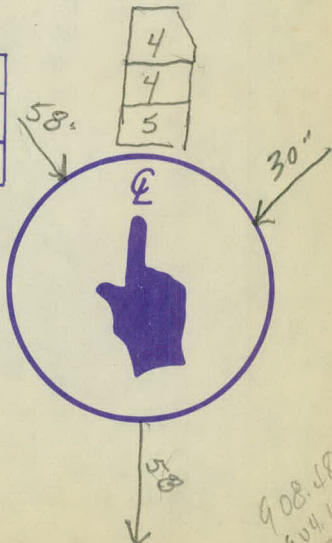
909.06

DIFFERENCES

+1.10

ADJUST

RECONSTRUCT



908.48  
904.66  
3.8



<sup>Top</sup>  
**STRUCTURAL DATA**  
**TYPE CB 26**

|          |           |       |              |
|----------|-----------|-------|--------------|
| STORM    | ELECTRIC  | WATER |              |
| SANITARY | TELEPHONE | OTHER |              |
| STATION  | LEFT      | RIGHT | SIZE         |
| 72+70    |           | 24"   | 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. |  |
| 4.50  |  |
|       |  |
|       |  |
|       |  |

FROZE Shut  
1-15-79



SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

|                 |        |
|-----------------|--------|
| DESIGN          |        |
| ELEVATION - TOP | 905.85 |
| FINAL ELEVATION |        |
| DIFFERENCES     |        |

ADJUST

RECONSTRUCT

Remove

# Top STRUCTURAL DATA TYPE

CB 27

STORM



ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

72+78

24

11"

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

X

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

DEPTH FROM  
BOTTOM OF M.H.

ELEV.

TO TOP OF CASTING  
DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

7.4

4.2

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

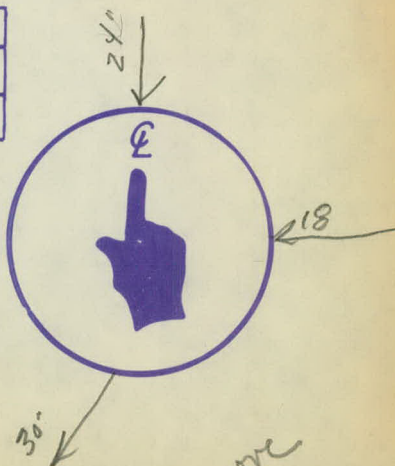
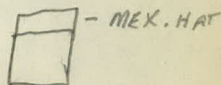
909.07

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT



Remove

# STRUCTURAL DATA

TYPE *MA29*

|              |      |           |           |              |  |
|--------------|------|-----------|-----------|--------------|--|
| STORM        |      | ELECTRIC  |           | WATER        |  |
| SANITARY     | ✓    | TELEPHONE |           | OTHER        |  |
| STATION      | LEFT | RIGHT     | SIZE      |              |  |
| <i>75+53</i> |      |           | <i>9"</i> | INCH CASTING |  |

|                |          |  |
|----------------|----------|--|
| TYPE OF CONST. | COMMENTS |  |
| BLOCK          |          |  |
| BRICK          |          |  |
| SECTIONAL      | ✓        |  |

|                 |      |          |       |          |
|-----------------|------|----------|-------|----------|
| ADJUSTING RINGS | TYPE | NO.      | DEPTH | COMMENTS |
| BLOCK           |      |          |       |          |
| BRICK           |      |          |       |          |
| CONC. RINGS     | ✓    | <i>8</i> |       |          |

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

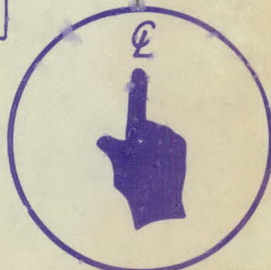
ELEV.

*12.911.23*

*±*

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

*8" VEP*



SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |               |
|-----------------|---------------|
| ELEVATION - TOP | <i>923.33</i> |
| FINAL ELEVATION | <i>922.44</i> |
| DIFFERENCES     | <i>.89</i>    |

ADJUST

RECONSTRUCT



# STRUCTURAL <sup>T&P</sup> DATA

## TYPE C.B 30

|          |           |                |              |
|----------|-----------|----------------|--------------|
| STORM    | ELECTRIC  | WATER          |              |
| SANITARY | TELEPHONE | OTHER          |              |
| STATION  | LEFT      | RIGHT          | SIZE         |
| 75+67    | 26'       | <del>26'</del> | 11"          |
|          |           |                | INCH CASTING |

|                |                                                                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF CONST. | B.S. COMMENTS                                                                                                                                                                                                |
| BLOCK          | <div style="font-size: 2em; font-weight: bold; transform: rotate(-15deg); display: inline-block;">NEW</div> <div style="font-size: 1.5em; font-weight: bold; display: inline-block;">RC-2 TOP .5' + 2"</div> |
| BRICK          |                                                                                                                                                                                                              |
| SECTIONAL      |                                                                                                                                                                                                              |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | X    | 3   |       |          |

|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|--------|--|------|--|
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING<br><br>DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING<br><br>ETC.<br><br>INV. | ELEV.<br><div style="border: 1px solid black; padding: 2px; margin-bottom: 10px;">6.9      916.85</div> <table border="1" style="width: 100%; height: 100px; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table> |  |        |  |        |  |      |  |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
| SIZES OF ALL<br>PIPES AND<br>DIRECTION OF<br>FLOW<br><br>DESIGN                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
| ELEVATION - TOP<br>FINAL ELEVATION<br>DIFFERENCES<br><br>ADJUST<br><br>RECONSTRUCT                                                         | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">923.75</td> <td style="width: 50%;"></td> </tr> <tr> <td>922.60</td> <td></td> </tr> <tr> <td>1.15</td> <td></td> </tr> </table> <div style="margin-top: 20px; text-align: center; font-size: 2em;">1.0</div>                                                                                                                                      |  | 923.75 |  | 922.60 |  | 1.15 |  |
| 923.75                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
| 922.60                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |
| 1.15                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |        |  |      |  |



# STRUCTURAL DATA <sup>Top</sup>

## TYPE CB 31

|                                                            |  |           |  |       |  |              |  |
|------------------------------------------------------------|--|-----------|--|-------|--|--------------|--|
| STORM                                                      |  | ELECTRIC  |  | WATER |  |              |  |
| SANITARY                                                   |  | TELEPHONE |  | OTHER |  |              |  |
| STATION                                                    |  | LEFT      |  | RIGHT |  | SIZE         |  |
| 78 + 63                                                    |  |           |  | 53    |  | 11           |  |
|                                                            |  |           |  |       |  | INCH CASTING |  |
| TYPE OF CONST.                                             |  | COMMENTS  |  |       |  |              |  |
| BLOCK                                                      |  | X         |  |       |  |              |  |
| BRICK                                                      |  |           |  |       |  |              |  |
| SECTIONAL                                                  |  |           |  |       |  |              |  |
| ADJUSTING RINGS                                            |  | TYPE      |  | NO.   |  | DEPTH        |  |
| BLOCK                                                      |  |           |  |       |  |              |  |
| BRICK                                                      |  |           |  |       |  |              |  |
| CONC. RINGS                                                |  |           |  |       |  |              |  |
| DEPTH FROM<br>BOTTOM OF M.H.                               |  | ELEV      |  |       |  |              |  |
| TO TOP OF CASTING                                          |  | 2.1       |  |       |  |              |  |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |  |           |  |       |  |              |  |
| ETC.                                                       |  |           |  |       |  |              |  |
| INV.                                                       |  |           |  |       |  |              |  |
| SIZES OF ALL<br>PIPES AND<br>DIRECTION OF<br>FLOW          |  |           |  |       |  |              |  |
| DESIGN                                                     |  |           |  |       |  |              |  |
| ELEVATION - TOP                                            |  | 939.44    |  |       |  |              |  |
| FINAL ELEVATION                                            |  |           |  |       |  |              |  |
| DIFFERENCES                                                |  |           |  |       |  |              |  |
| ADJUST                                                     |  |           |  |       |  |              |  |
| RECONSTRUCT                                                |  |           |  |       |  |              |  |



OK

# STRUCTURAL DATA

TYPE *MH 32*

STORM

ELECTRIC

WATER

SANITARY

TELEPHONE

OTHER

STATION

LEFT

RIGHT

SIZE

*78+80*

*17*

*7*

INCH CASTING

TYPE OF CONST.

COMMENTS

BLOCK

BRICK

SECTIONAL

ADJUSTING RINGS

TYPE

NO.

DEPTH

COMMENTS

BLOCK

BRICK

CONC. RINGS

✓

*5*

DEPTH FROM  
BOTTOM OF M.H.

ELEV.

TO TOP OF CASTING

*15.10*

*924.73*

DISTANCE  
FROM HIGHEST  
FLOW LINE TO  
TOP OF CASTING

ETC.

INV.

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

*939.83*

FINAL ELEVATION

*939.74*

DIFFERENCES

*.09*

ADJUST

RECONSTRUCT

*8" VCP*

*8" VCP*



52.67  
12.14  
40.53

# STRUCTURAL DATA

## TYPE CB 33

|          |      |           |      |              |  |
|----------|------|-----------|------|--------------|--|
| STORM    | ✓    | ELECTRIC  |      | WATER        |  |
| SANITARY |      | TELEPHONE |      | OTHER        |  |
| STATION  | LEFT | RIGHT     | SIZE |              |  |
| 78+92    |      | 53        |      | INCH CASTING |  |

|                |          |
|----------------|----------|
| TYPE OF CONST. | COMMENTS |
| BLOCK          |          |
| BRICK          |          |
| SECTIONAL      |          |

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

|                                                            |       |                                                                                        |
|------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING           | ELEV. | <div style="border: 1px solid black; display: inline-block; padding: 5px;">4. 70</div> |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |       |                                                                                        |
| ETC.                                                       |       |                                                                                        |
| INV.                                                       |       |                                                                                        |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT





# STRUCTURAL DATA

## TYPE CB 34

|          |           |       |              |
|----------|-----------|-------|--------------|
| STORM    | ELECTRIC  | WATER |              |
| SANITARY | TELEPHONE | OTHER |              |
| STATION  | LEFT      | RIGHT | SIZE         |
| 79+06    | 24'       |       | INCH CASTING |

|                |  |
|----------------|--|
| TYPE OF CONST. |  |
| BLOCK          |  |
| BRICK          |  |
| SECTIONAL      |  |

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

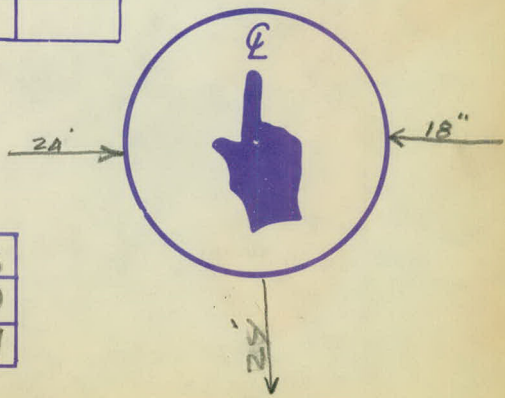
|                                                            |              |
|------------------------------------------------------------|--------------|
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING           | ELEV.        |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING | 9.99, 930.63 |
| ETC.                                                       |              |
| INV.                                                       |              |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |        |
|-----------------|--------|
| ELEVATION - TOP | 940.53 |
| FINAL ELEVATION | 940.90 |
| DIFFERENCES     | +0.37  |

ADJUST  
  
RECONSTRUCT



# STRUCTURAL DATA <sup>Top</sup>

## TYPE SD.35

|              |           |              |
|--------------|-----------|--------------|
| STORM        | ELECTRIC  | WATER        |
| SANITARY     | TELEPHONE | OTHER        |
| STATION      | LEFT      | RIGHT        |
| <u>79+20</u> |           | <u>25</u>    |
|              |           | SIZE         |
|              |           | INCH CASTING |

|                |          |
|----------------|----------|
| TYPE OF CONST. | COMMENTS |
| BLOCK          |          |
| BRICK          |          |
| SECTIONAL      |          |

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

|                                                            |               |
|------------------------------------------------------------|---------------|
| DEPTH FROM<br>BOTTOM OF M.H.<br>TO TOP OF CASTING          | ELEV          |
| <u>8.0</u>                                                 | <u>934.51</u> |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |               |
| ETC.                                                       |               |
| INV.                                                       |               |

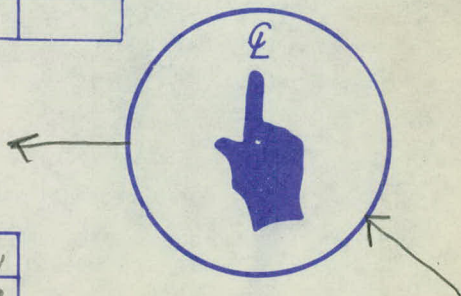
SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |               |
|-----------------|---------------|
| ELEVATION - TOP | <u>939.51</u> |
| FINAL ELEVATION | <u>941.33</u> |
| DIFFERENCES     | <u>+1.82</u>  |

ADJUST

RECONSTRUCT



# STRUCTURAL DATA Top

## TYPE MH.36

|          |           |       |              |
|----------|-----------|-------|--------------|
| STORM    | ELECTRIC  | WATER |              |
| SANITARY | TELEPHONE | OTHER |              |
| STATION  | LEFT      | RIGHT | SIZE         |
| 81+80    | 17'       |       |              |
|          |           |       | INCH CASTING |

|                |  |          |
|----------------|--|----------|
| TYPE OF CONST. |  | COMMENTS |
| BLOCK          |  |          |
| BRICK          |  |          |
| SECTIONAL      |  |          |

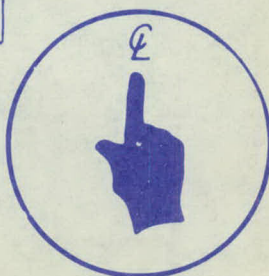
|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     |      |     |       |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

|                                                            |      |
|------------------------------------------------------------|------|
| DEPTH FROM<br>BOTTOM OF M.H.                               | ELEV |
| TO TOP OF CASTING                                          |      |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING |      |
| ETC.                                                       |      |
| INV.                                                       |      |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

|                 |        |
|-----------------|--------|
| ELEVATION - TOP | 954.96 |
| FINAL ELEVATION | 954.74 |
| DIFFERENCES     | .22    |



ADJUST

RECONSTRUCT



# STRUCTURAL DATA

## TYPE MH 37

Top

|          |   |           |  |       |  |
|----------|---|-----------|--|-------|--|
| STORM    |   | ELECTRIC  |  | WATER |  |
| SANITARY | ✓ | TELEPHONE |  | OTHER |  |

|         |      |       |      |              |
|---------|------|-------|------|--------------|
| STATION | LEFT | RIGHT | SIZE | INCH CASTING |
| 84+80   | 17   |       |      |              |

|                |                    |
|----------------|--------------------|
| TYPE OF CONST. | COMMENTS           |
| BLOCK          | 2' Section         |
| BRICK          | 4' Cone concentric |
| SECTIONAL      | ✓                  |

|                 |      |     |       |          |
|-----------------|------|-----|-------|----------|
| ADJUSTING RINGS | TYPE | NO. | DEPTH | COMMENTS |
| BLOCK           |      |     |       |          |
| BRICK           |      |     |       |          |
| CONC. RINGS     | ✓    | 5   |       |          |

|                                                            |       |
|------------------------------------------------------------|-------|
| DEPTH FROM<br>BOTTOM OF M.H<br>TO TOP OF CASTING           | ELEV. |
| DISTANCE<br>FROM HIGHEST<br>FLOW LINE TO<br>TOP OF CASTING | 8. 70 |
| ETC.                                                       |       |
| INV.                                                       |       |

SIZES OF ALL  
PIPES AND  
DIRECTION OF  
FLOW

DESIGN

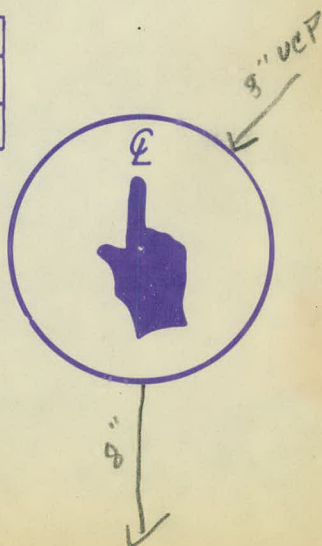
ELEVATION - TOP

FINAL ELEVATION

DIFFERENCES

ADJUST

RECONSTRUCT





952.67  
1.91  
940.76