

Dr. 8 - BK. 4  
CROSS SECTIONS  
GUSTAFSON'S GRAVEL PIT

Office of Ramsey Co. Engineer  
ST. PAUL, MINN.

Date Filed 4-5-23

File No. "4"

Gustafson's Pit.

Sections Right of Base Line

Gravel Pit.

April 4, 1923

Carley - Level  
Persons - Rod.

File  
5

| Sta      | +     | H.I.   | - | Red  | Elev.   |
|----------|-------|--------|---|------|---------|
| B.M.     | 10.48 | 249.57 | ✓ |      | 239.09  |
| O - 00   |       |        |   | 13.3 | 236.3 ✓ |
| A = 0+25 |       |        |   | 11.3 | 238.3 ✓ |
| B = 0+50 |       |        |   | 10.3 | 239.3 ✓ |
| C = 0+75 |       |        |   | 10.6 | 239.0 ✓ |
| D = 1+00 |       |        |   | 12.5 | 237.1 ✓ |
| B.M.     | 3.67  | 242.76 | ✓ |      | 239.09  |
| E = 1+25 |       |        |   | 5.6  | 237.2 ✓ |
| F = 1+50 |       |        |   | 6.1  | 236.7 ✓ |
| G 1+75   |       |        |   | 7.6  | 235.2 ✓ |
| H 2+00   |       |        |   | 8.5  | 234.3 ✓ |
| I = 2+25 |       |        |   | 11.0 | 231.8 ✓ |
| J = 2+50 |       |        |   | 15.2 | 227.6 ✓ |
| B.M.     | 5.43  | 237.61 | ✓ |      | 232.18  |
| K = 2+75 | ✓     |        |   | 13.5 | 224.1 ✓ |

Sheet #2 of 6 sheets  
 Elev Right of Base Line.

|             |             |            |            |            |            |            |            |            |
|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| 37.8        | 39.2        | 41.8       | 45.2       | 47.4       | 47.4       | 48.1       | 46.6       | 46.2       |
| <u>11.8</u> | <u>10.4</u> | <u>7.8</u> | <u>4.9</u> | <u>2.2</u> | <u>2.2</u> | <u>1.5</u> | <u>3.0</u> | <u>2.4</u> |
| 25          | 50          | 75         | 100        | 125        | 150        | 175        | 200        | 215        |

|             |            |            |            |            |            |            |            |            |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 44.6        | 41.0       | 43.3       | 45.7       | 47.5       | 47.5       | 46.4       | 45.7       | 45.8       |
| <u>10.0</u> | <u>8.6</u> | <u>6.3</u> | <u>3.9</u> | <u>2.1</u> | <u>2.1</u> | <u>3.2</u> | <u>3.9</u> | <u>3.8</u> |
| 25          | 50         | 75         | 100        | 125        | 150        | 175        | 200        | 210        |

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 40.9       | 42.3       | 46.4       | 47.5       | 46.5       | 45.3       | 45.0       | 45.6       |
| <u>8.7</u> | <u>7.3</u> | <u>2.2</u> | <u>2.1</u> | <u>3.1</u> | <u>2.3</u> | <u>4.6</u> | <u>9.0</u> |
| 25         | 50         | 100        | 125        | 150        | 175        | 200        | 215        |

|            |  |            |            |            |  |            |            |            |            |
|------------|--|------------|------------|------------|--|------------|------------|------------|------------|
| 40.2       |  | 43.2       | 45.5       | 46.1       |  | 44.7       | 43.8       | 43.9       | 45.1       |
| <u>9.7</u> |  | <u>6.9</u> | <u>1.1</u> | <u>3.5</u> |  | <u>4.9</u> | <u>5.8</u> | <u>5.7</u> | <u>2.5</u> |
| 25         |  | 75         | 100        | 125        |  | 150        | 175        | 200        | 215        |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 39.9       | 41.9       | 43.4       | 42.5       | 42.6       | 43.9       |
| <u>9.7</u> | <u>7.7</u> | <u>6.2</u> | <u>7.1</u> | <u>7.0</u> | <u>5.7</u> |
| 50         | 75         | 100        | 150        | 200        | 215        |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 39.8       | 41.9       | 41.0       | 41.3       | 41.8       | 42.7       |
| <u>3.0</u> | <u>0.9</u> | <u>1.8</u> | <u>1.5</u> | <u>1.0</u> | <u>0.1</u> |
| 50         | 75         | 100        | 125        | 200        | 224        |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 41.3       | 40.8       | 39.1       | 40.6       | 41.1       | 41.9       |
| <u>1.5</u> | <u>2.0</u> | <u>3.7</u> | <u>2.2</u> | <u>1.7</u> | <u>0.9</u> |
| 50         | 75         | 100        | 150        | 200        | 228        |

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 39.7       | 41.2       | 38.9       | 38.4       | 40.5       | 40.7       | 40.8       | 41.4       |
| <u>3.1</u> | <u>1.6</u> | <u>3.9</u> | <u>4.4</u> | <u>2.3</u> | <u>2.1</u> | <u>2.0</u> | <u>1.9</u> |
| 25         | 50         | 75         | 100        | 125        | 150        | 200        | 225        |

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 38.3       | 38.1       | 36.5       | 38.3       | 40.7       | 40.9       | 39.3       | 39.5       |
| <u>4.5</u> | <u>4.7</u> | <u>6.3</u> | <u>4.5</u> | <u>2.1</u> | <u>1.9</u> | <u>3.5</u> | <u>3.3</u> |
| 25         | 50         | 75         | 100        | 125        | 150        | 200        | 225        |

|            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 34.3       | 33.8       | 33.6       | 35.1       | 40.3       | 39.2       | 36.3       | 37.0       |
| <u>8.5</u> | <u>7.0</u> | <u>9.2</u> | <u>7.7</u> | <u>2.5</u> | <u>3.6</u> | <u>6.5</u> | <u>5.8</u> |
| 25         | 50         | 61         | 75         | 125        | 150        | 200        | 225        |

|             |             |            |            |            |            |
|-------------|-------------|------------|------------|------------|------------|
| 29.0        | 31.0        | 38.2       | 38.0       | 34.7       | 35.3       |
| <u>13.8</u> | <u>11.8</u> | <u>1.6</u> | <u>4.8</u> | <u>8.1</u> | <u>7.5</u> |
| 25          | 50          | 100        | 125        | 175        | 225        |

T.R. on L

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 31.5       | 35.7       | 36.2       | 34.1       | 33.6       | 35.3       |
| <u>6.1</u> | <u>1.9</u> | <u>1.4</u> | <u>3.5</u> | <u>4.0</u> | <u>2.3</u> |
| 50         | 75         | 100        | 125        | 175        | 225        |

S. H.E. - P. d. E. h.

B.M. 12.22

270

B.M.

836

O

A

B

C

D

E

F

B.M. 3.70

G

H

I

T.P. 3.74

10.61

J

K

Sheet #3 of 8 sheets

| Sta. | I    | H.E.   | - | Rod Elev |
|------|------|--------|---|----------|
| B.M. | 5.13 | 237.61 | ✓ |          |

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| L |  |  |  | 13.0 | 229.6 | ✓ |
|---|--|--|--|------|-------|---|

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| M |  |  |  | 11.4 | 226.2 | ✓ |
|---|--|--|--|------|-------|---|

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| N |  |  |  | 11.6 | 226.0 | ✓ |
|---|--|--|--|------|-------|---|

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| O |  |  |  | 13.3 | 224.3 | ✓ |
|---|--|--|--|------|-------|---|

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| P |  |  |  | 15.1 | 222.5 | ✓ |
|---|--|--|--|------|-------|---|

|   |  |  |  |      |       |   |
|---|--|--|--|------|-------|---|
| Q |  |  |  | 15.5 | 222.1 | ✓ |
|---|--|--|--|------|-------|---|

Sheet # 9 of 8 sheets

Right of Base Line

|            |            |            |            |            |             |
|------------|------------|------------|------------|------------|-------------|
| 32.7       | 34.2       | 32.7       | 31.5       | 34.4       | 35.8        |
| <u>4.9</u> | <u>3.4</u> | <u>4.9</u> | <u>6.1</u> | <u>3.2</u> | <u>11.8</u> |
| 50         | 75         | 100        | 125        | 175        | 225         |

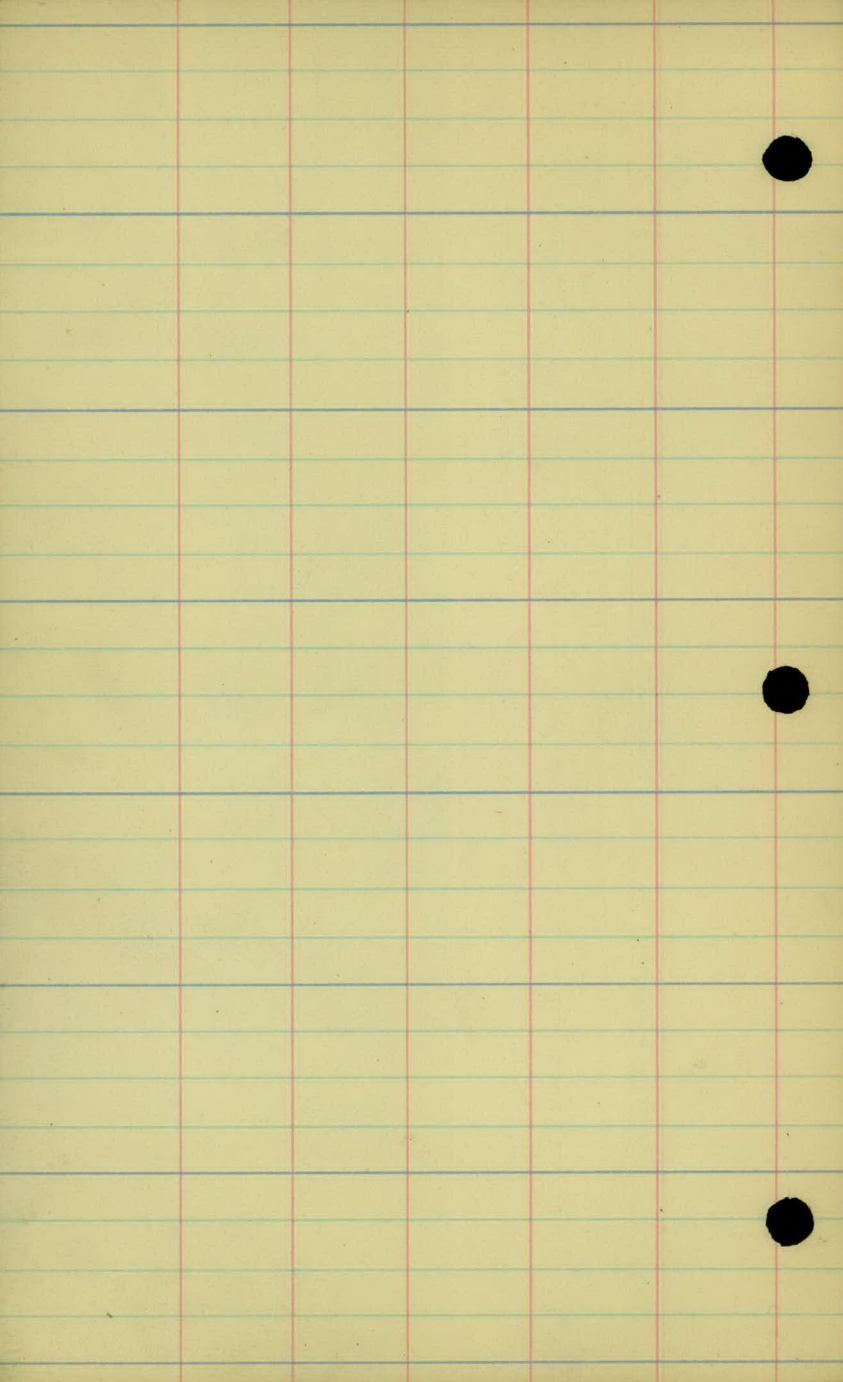
|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| 29.5       | 31.4       | 29.8       | 33.9       | 35.7       | 36.3       |
| <u>8.1</u> | <u>6.2</u> | <u>7.8</u> | <u>3.7</u> | <u>1.9</u> | <u>1.3</u> |
| 25         | 50         | 100        | 150        | 200        | 225        |

|            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|
| 28.1       | 28.0       | 29.4       | 31.7       | 33.4       | 35.6       | 35.7       |
| <u>9.5</u> | <u>9.6</u> | <u>8.2</u> | <u>5.9</u> | <u>4.2</u> | <u>2.0</u> | <u>1.9</u> |
| 50         | 75         | 100        | 125        | 150        | 200        | 225        |

|             |             |             |            |            |            |
|-------------|-------------|-------------|------------|------------|------------|
| 25.6        | 26.5        | 27.4        | 29.8       | 32.8       | 34.6       |
| <u>12.0</u> | <u>11.1</u> | <u>10.2</u> | <u>7.8</u> | <u>7.8</u> | <u>3.0</u> |
| 50          | 75          | 100         | 125        | 175        | 225        |

|             |             |             |            |            |
|-------------|-------------|-------------|------------|------------|
| 23.6        | 24.1        | 26.6        | 30.6       | 31.8       |
| <u>14.0</u> | <u>13.5</u> | <u>11.0</u> | <u>7.0</u> | <u>5.8</u> |
| 50          | 100         | 150         | 200        | 225        |

|             |             |             |             |            |
|-------------|-------------|-------------|-------------|------------|
| 23.1        | 23.3        | 24.4        | 27.4        | 29.6       |
| <u>14.5</u> | <u>14.3</u> | <u>13.2</u> | <u>10.2</u> | <u>8.0</u> |
| 50          | 100         | 150         | 200         | 225        |



Sections Left  
of Base line

-GRAVEL PIT.-

| Sta  | + H.I. | -        | Rod Elev |
|------|--------|----------|----------|
| B.M. | 10.22  | 249.31 ✓ | 239.09   |
| B.M. |        | 8.38     | 240.73   |

A.

B.

C.

D.

E.

F.

|      |          |        |
|------|----------|--------|
| 3.70 | 242.79 ✓ | 239.09 |
|------|----------|--------|

G.

H.

I.

|      |      |          |       |          |
|------|------|----------|-------|----------|
| T.P. | 3.74 | 235.92 ✓ | 10.61 | 232.18 ✓ |
|------|------|----------|-------|----------|

J.

K.

Sheet #6 of 8 sheets  
Elev Left of Base Line.

00 to 300' L

Top of fence post on 275'

|             |             |             |            |            |            |            |            |             |             |
|-------------|-------------|-------------|------------|------------|------------|------------|------------|-------------|-------------|
| 34.7        | 34.9        | 38.0        | 42.8       | 46.8       | 46.5       | 47.7       | 43.4       | 38.6        | 32.3        |
| <u>14.6</u> | <u>14.4</u> | <u>11.3</u> | <u>6.5</u> | <u>2.5</u> | <u>2.8</u> | <u>6.6</u> | <u>5.9</u> | <u>10.7</u> | <u>12.0</u> |
| 25          | 50          | 75          | 100        | 125        | 150        | 200        | 250        | 275         | 300         |

|             |             |             |            |            |            |            |            |            |             |
|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|
| 35.9        | 36.3        | 38.5        | 44.0       | 47.5       | 47.0       | 43.5       | 42.9       | 39.8       | 34.3        |
| <u>13.9</u> | <u>13.0</u> | <u>10.8</u> | <u>5.3</u> | <u>1.8</u> | <u>2.3</u> | <u>5.8</u> | <u>6.4</u> | <u>9.5</u> | <u>15.0</u> |
| 25          | 50          | 75          | 100        | 125        | 150        | 200        | 250        | 275        | 300         |

|             |             |            |            |            |            |            |            |            |             |
|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| 37.6        | 37.3        | 39.5       | 43.6       | 45.7       | 44.1       | 42.5       | 41.7       | 40.8       | 36.2        |
| <u>11.7</u> | <u>12.0</u> | <u>9.8</u> | <u>5.7</u> | <u>3.6</u> | <u>5.2</u> | <u>6.2</u> | <u>7.6</u> | <u>8.5</u> | <u>13.1</u> |
| 25          | 50          | 75         | 100        | 125        | 175        | 200        | 250        | 275        | 300         |

|             |             |            |            |            |            |            |            |             |  |
|-------------|-------------|------------|------------|------------|------------|------------|------------|-------------|--|
| 37.2        | 37.3        | 41.1       | 41.3       | 40.6       | 42.0       | 41.1       | 40.8       | 38.5        |  |
| <u>12.1</u> | <u>12.0</u> | <u>8.2</u> | <u>8.0</u> | <u>8.7</u> | <u>7.3</u> | <u>8.2</u> | <u>8.5</u> | <u>10.8</u> |  |
| 25          | 50          | 100        | 125        | 150        | 200        | 250        | 275        | 300         |  |

|             |             |             |             |            |            |            |             |            |  |
|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|------------|--|
| 35.3        | 38.2        | 38.2        | 38.5        | 41.7       | 43.0       | 39.7       | 39.0        | 39.7       |  |
| <u>17.0</u> | <u>11.1</u> | <u>11.1</u> | <u>10.8</u> | <u>7.6</u> | <u>6.3</u> | <u>9.6</u> | <u>10.3</u> | <u>9.6</u> |  |
| 50          | 100         | 125         | 150         | 175        | 200        | 250        | 275         | 300        |  |

|             |             |             |             |            |            |            |             |             |  |
|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|--|
| 33.8        | 36.2        | 37.7        | 39.1        | 41.0       | 42.1       | 40.3       | 35.7        | 38.3        |  |
| <u>15.8</u> | <u>13.1</u> | <u>11.6</u> | <u>10.2</u> | <u>8.3</u> | <u>7.2</u> | <u>9.0</u> | <u>13.6</u> | <u>11.0</u> |  |
| 50          | 75          | 100         | 150         | 175        | 200        | 225        | 275         | 300         |  |

|             |             |             |             |             |            |            |            |             |             |
|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|
| 33.0        | 34.3        | 34.0        | 35.1        | 37.2        | 40.2       | 41.6       | 40.2       | 35.8        | 37.9        |
| <u>16.3</u> | <u>15.0</u> | <u>15.3</u> | <u>14.2</u> | <u>12.1</u> | <u>9.1</u> | <u>7.7</u> | <u>9.1</u> | <u>13.5</u> | <u>11.4</u> |
| 50          | 75          | 100         | 125         | 150         | 175        | 200        | 225        | 275         | 300         |

Top of post on Base line

|             |             |             |             |            |            |            |            |            |            |            |
|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|
| 28.3        | 29.2        | 28.6        | 31.1        | 34.6       | 37.6       | 39.4       | 39.8       | 37.5       | 36.5       | 37.7       |
| <u>19.5</u> | <u>13.6</u> | <u>14.2</u> | <u>11.7</u> | <u>8.2</u> | <u>8.2</u> | <u>3.4</u> | <u>3.0</u> | <u>5.3</u> | <u>6.3</u> | <u>5.1</u> |
| 50          | 75          | 100         | 125         | 150        | 175        | 200        | 225        | 250        | 275        | 300        |

|             |             |             |            |            |            |            |            |  |  |
|-------------|-------------|-------------|------------|------------|------------|------------|------------|--|--|
| 24.9        | 25.6        | 31.4        | 34.0       | 37.5       | 38.4       | 38.0       | 36.7       |  |  |
| <u>17.9</u> | <u>17.2</u> | <u>11.4</u> | <u>8.8</u> | <u>5.3</u> | <u>7.4</u> | <u>4.8</u> | <u>6.6</u> |  |  |
| 50          | 100         | 150         | 175        | 225        | 250        | 275        | 300        |  |  |

|             |             |             |             |            |            |            |  |  |  |
|-------------|-------------|-------------|-------------|------------|------------|------------|--|--|--|
| 20.8        | 22.8        | 28.1        | 31.0        | 34.4       | 36.6       | 33.5       |  |  |  |
| <u>22.0</u> | <u>20.0</u> | <u>14.7</u> | <u>11.8</u> | <u>8.4</u> | <u>6.2</u> | <u>9.3</u> |  |  |  |
| 75          | 125         | 175         | 225         | 250        | 275        | 300        |  |  |  |

|             |             |             |            |            |            |  |  |  |  |
|-------------|-------------|-------------|------------|------------|------------|--|--|--|--|
| 17.9        | 21.5        | 22.6        | 27.1       | 32.8       | 30.6       |  |  |  |  |
| <u>18.0</u> | <u>14.4</u> | <u>13.3</u> | <u>8.8</u> | <u>3.1</u> | <u>5.3</u> |  |  |  |  |
| 100         | 200         | 225         | 250        | 275        | 300        |  |  |  |  |

|             |             |             |             |            |            |  |  |  |  |
|-------------|-------------|-------------|-------------|------------|------------|--|--|--|--|
| 19.4        | 16.7        | 16.7        | 17.9        | 27.5       | 28.7       |  |  |  |  |
| <u>16.5</u> | <u>19.2</u> | <u>19.2</u> | <u>18.0</u> | <u>8.4</u> | <u>7.2</u> |  |  |  |  |
| 50          | 100         | 200         | 225         | 275        | 300        |  |  |  |  |

Sta + H.I. - Rod Elev

B.M. 65.43 24 6.36 ✓

21093

L

M

N

O

P

Q

57

Left of Baseline from L to Q

$$\begin{array}{r} 27.7 \\ 18.7 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 25.7 \\ 20.7 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 27.2 \\ 19.2 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 25.1 \\ 21.3 \\ \hline 61 \end{array}$$

$$\begin{array}{r} 28.3 \\ 18.1 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 26.3 \\ 20.1 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 27.7 \\ 18.7 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 26.3 \\ 20.1 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 27.3 \\ 19.1 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 25.4 \\ 21.0 \\ \hline 75 \end{array}$$

$$\begin{array}{r} 27.4 \\ 19.0 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 26.3 \\ 20.1 \\ \hline 75 \end{array}$$

Sta + H.I. - Rod Elev.

B.M. 0.53 291.46

240.93

O

A

B

C

D

E

F

G

H

I

J

K

From 300' Left of Base Line - Left

Top of fence post 275' Left BL, 0

$$\begin{array}{r} 226.9 \\ 14.6 \\ \hline 325 \end{array} \quad \begin{array}{r} 18.3 \\ \hline 350 \end{array}$$

$$\begin{array}{r} 227.5 \\ 14.0 \\ \hline 325 \end{array} \quad \begin{array}{r} 17.5 \\ \hline 350 \end{array}$$

$$\begin{array}{r} 230.5 \\ 11.0 \\ \hline 325 \end{array} \quad \begin{array}{r} 16.2 \\ \hline 350 \end{array}$$

$$\begin{array}{r} 234.1 \\ 7.4 \\ \hline 325 \end{array} \quad \begin{array}{r} 12.9 \\ \hline 350 \end{array} \quad \begin{array}{r} 18.1 \\ \hline 375 \end{array}$$

$$\begin{array}{r} 237.0 \\ 4.5 \\ \hline 325 \end{array} \quad \begin{array}{r} 10.8 \\ \hline 350 \end{array} \quad \begin{array}{r} 17.0 \\ \hline 375 \end{array}$$

$$\begin{array}{r} 237.8 \\ 3.7 \\ \hline 325 \end{array} \quad \begin{array}{r} 9.3 \\ \hline 350 \end{array} \quad \begin{array}{r} 16.0 \\ \hline 375 \end{array}$$

$$\begin{array}{r} 237.0 \\ 4.6 \\ \hline 325 \end{array} \quad \begin{array}{r} 11.2 \\ \hline 350 \end{array}$$

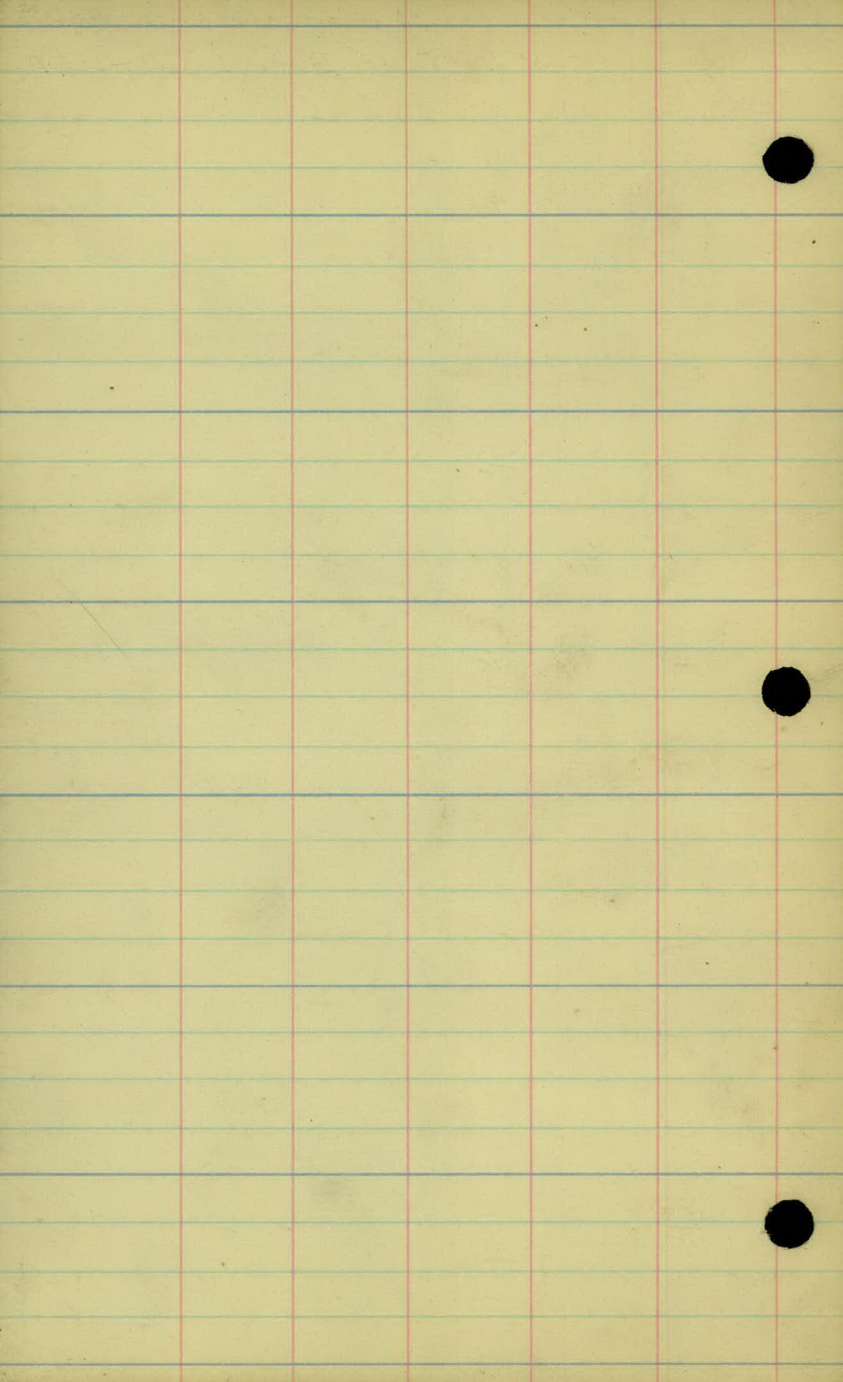
$$\begin{array}{r} 233.3 \\ 8.2 \\ \hline 325 \end{array} \quad 1$$

$$\begin{array}{r} 13.3 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 225.1 \\ 15.8 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 225.8 \\ 16.2 \\ \hline 318 \end{array}$$

$$\begin{array}{r} 225.1 \\ 15.8 \\ \hline 318 \end{array}$$



Gustafson's Piti

Layout.

Survey Made By - Reifler

April, 4, 1923.

Location of Gravel Pit. in

S.W.  $\frac{1}{4}$  of the N.W.  $\frac{1}{4}$  - Sect. 11 - T29-R22

| Sta. | Point | Bearing |
|------|-------|---------|
|------|-------|---------|

4+50

N00-00 E

0+00: on Baseline - 218.0 West (on  $\frac{1}{4}$  line) of the  
S.E. Corner of the S.W.  $\frac{1}{4}$   
of the N.W.  $\frac{1}{4}$  of Sect. 11

Gravel Pit  
Sect. 11

Barn

E3

12 Oak

R.R. Spike

4+50

1/4-1/4 Cor. N.E. 1/4

R.R. Spike

R.R. Spike at base line

S.E.  
86.1

10 Oak  
Stump

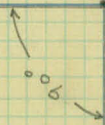
308.42 1308.42

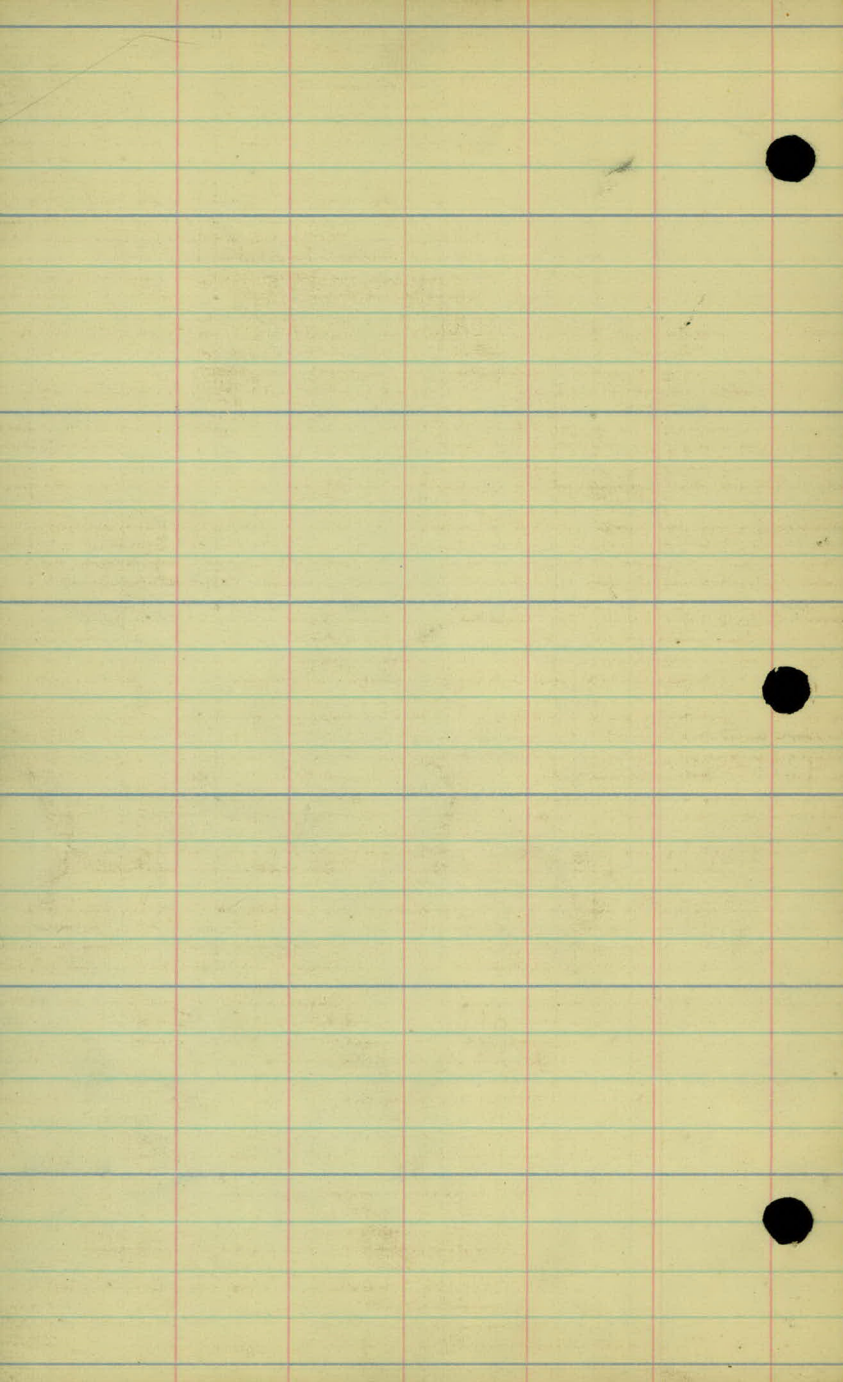
218.0

1/4-1/4 Cor.

W. 1/4 Cor. Sect. 11

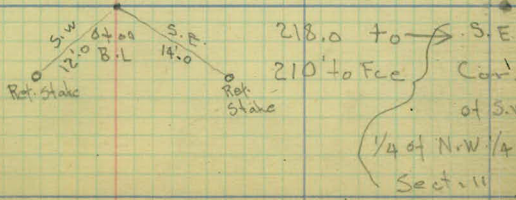
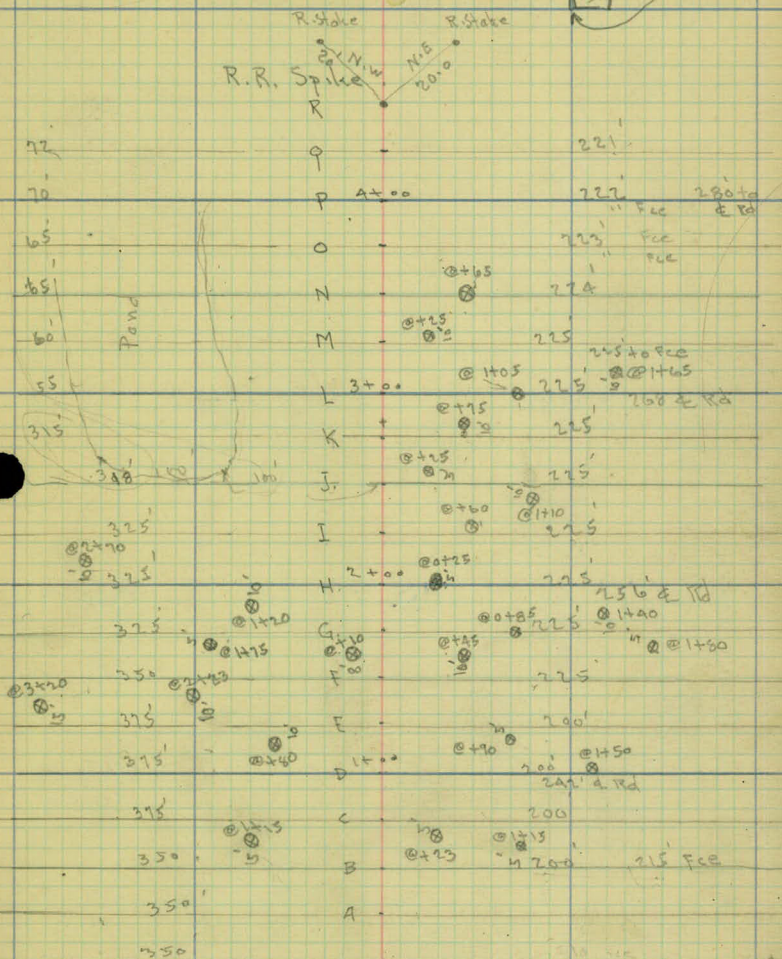
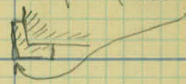
Center  
Sect. 11

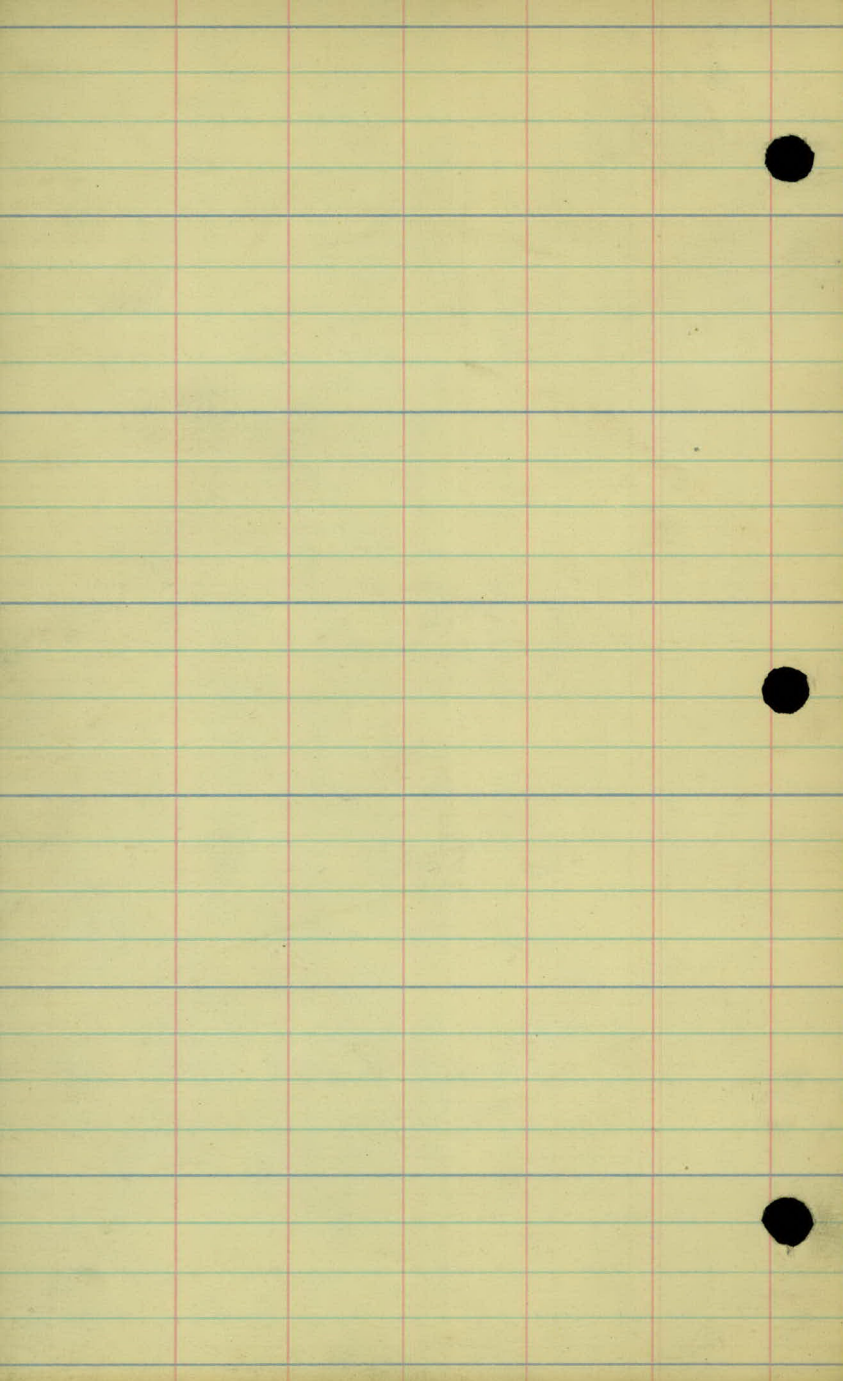




R

S.W. Corner of barn  
is on line of Base Line.  
At top on edge of Cor. Bas.





Location of  
Service Road

## Gravel Pit.

4-18-23

3+02  $\frac{3}{2}$  End2+95  $\frac{00}{2}$  P.T.

2+75

21°-44'

2+50

18°-28'

2+35  $\frac{55}{2}$  P.I. $\Delta$  43.28

2+25

14°-06'

C 35°-00'

2+00

9°-44'

S.T. 66.25

1+75

5°-22'

L.C. 124.20

1+69  $\frac{2}{2}$ 

P.C.

1°-0'

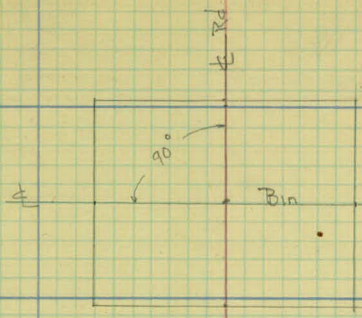
0+04  $\frac{2}{2}$ 

West Edge of proposed paving

0+00

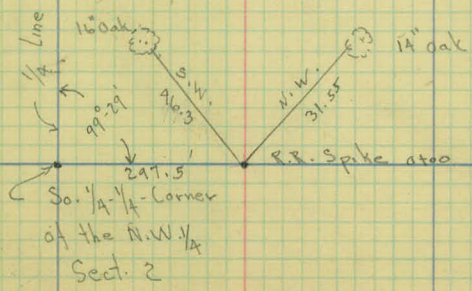
E Old White Bear Rd

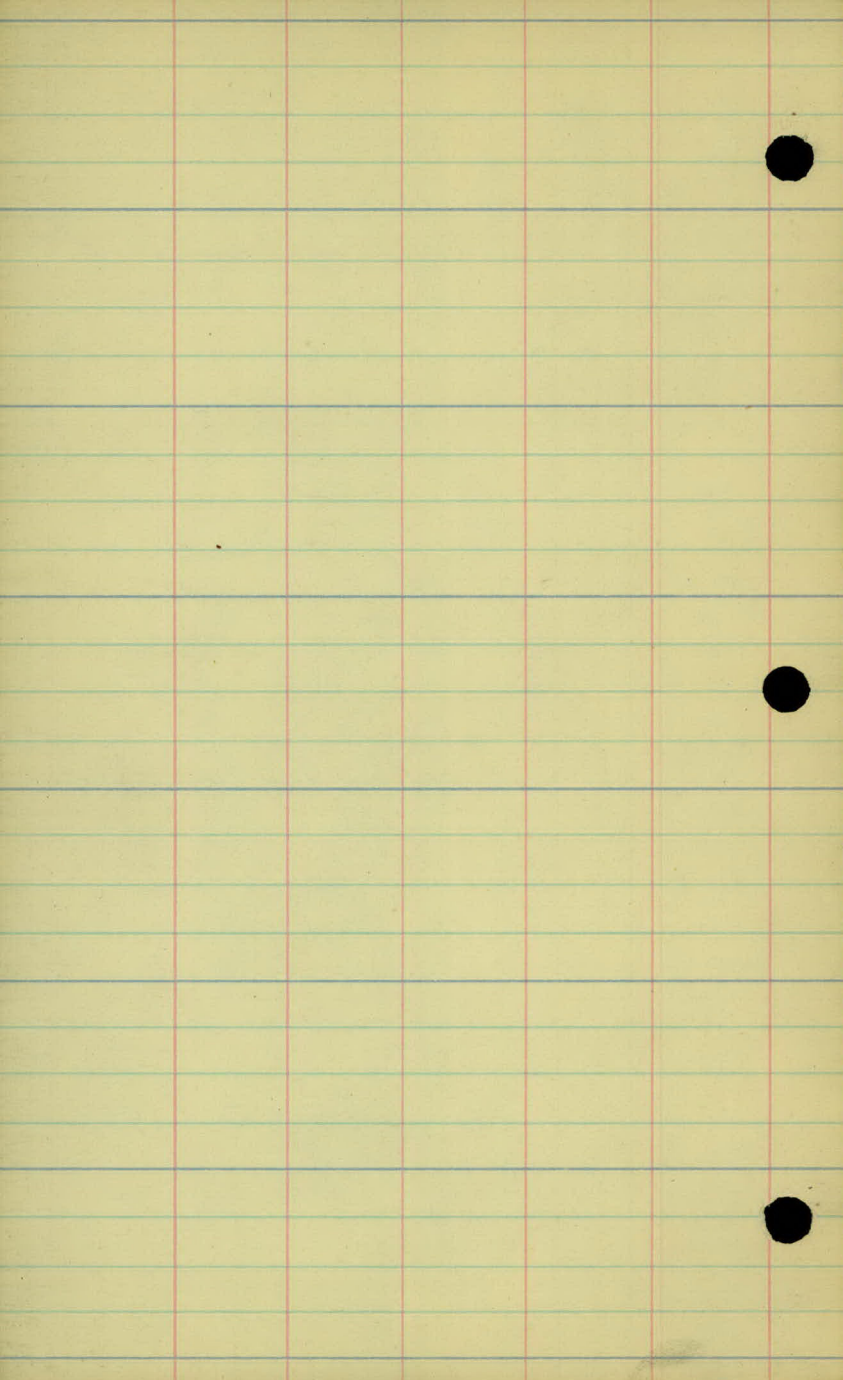
3+02.3



Stake on E Bin 37' North

Stake on E Bin





Slope Stakes for Gravel pit rd.

M. W. Corley

April 18, 1923

| Sta | +    | H.I.   | - | Elev.  | Grade |
|-----|------|--------|---|--------|-------|
|     | 1.20 | 240.08 |   | 238.88 |       |

|      |  |  |     |        |        |
|------|--|--|-----|--------|--------|
| 0+00 |  |  | 1.2 | 238.88 | 238.88 |
|------|--|--|-----|--------|--------|

|     |  |  |     |       |        |
|-----|--|--|-----|-------|--------|
| +50 |  |  | 1.3 | 235.8 | 236.03 |
|-----|--|--|-----|-------|--------|

|      |  |  |     |       |        |
|------|--|--|-----|-------|--------|
| 1+00 |  |  | 6.0 | 234.1 | 233.16 |
|------|--|--|-----|-------|--------|

|     |  |  |     |       |        |
|-----|--|--|-----|-------|--------|
| +50 |  |  | 9.2 | 229.9 | 230.29 |
|-----|--|--|-----|-------|--------|

|     |  |  |      |       |        |
|-----|--|--|------|-------|--------|
| +75 |  |  | 10.1 | 230.0 | 228.86 |
|-----|--|--|------|-------|--------|

|      |  |  |     |       |        |
|------|--|--|-----|-------|--------|
| 2+00 |  |  | 9.0 | 231.1 | 227.42 |
|------|--|--|-----|-------|--------|

|     |  |  |     |       |        |
|-----|--|--|-----|-------|--------|
| +25 |  |  | 8.7 | 231.4 | 225.98 |
|-----|--|--|-----|-------|--------|

|     |  |  |      |       |        |
|-----|--|--|------|-------|--------|
| +50 |  |  | 11.8 | 228.1 | 224.53 |
|-----|--|--|------|-------|--------|

|    |      |        |       |        |  |
|----|------|--------|-------|--------|--|
| TP | 5.10 | 231.10 | 14.08 | 226.00 |  |
|----|------|--------|-------|--------|--|

|     |  |  |     |       |        |
|-----|--|--|-----|-------|--------|
| +75 |  |  | 6.7 | 224.4 | 223.14 |
|-----|--|--|-----|-------|--------|

|     |  |  |     |       |        |
|-----|--|--|-----|-------|--------|
| +95 |  |  | 8.9 | 222.2 | 222.00 |
|-----|--|--|-----|-------|--------|

|        |  |  |     |       |  |
|--------|--|--|-----|-------|--|
| 3+02.3 |  |  | 9.6 | 221.5 |  |
|--------|--|--|-----|-------|--|

L. L R.

of W.B. rd.

0.0

$$\frac{F3.1}{12.4}$$

$$F2.3$$

$$\frac{F2.3}{11.0}$$

$$\frac{C1.3}{9.7}$$

$$C0.9$$

$$\frac{C0.6}{9}$$

$$\frac{F0.3}{8.3}$$

$$F0.3$$

$$\frac{0.0}{8}$$

$$\frac{C2.1}{11}$$

$$C1.1$$

$$\frac{C0.4}{9}$$

$$\frac{C5.6}{16}$$

$$C3.7$$

$$\frac{C2.3}{11.3}$$

$$\frac{C6.3}{17.5}$$

$$C5.4$$

$$\frac{C9.2}{14.3}$$

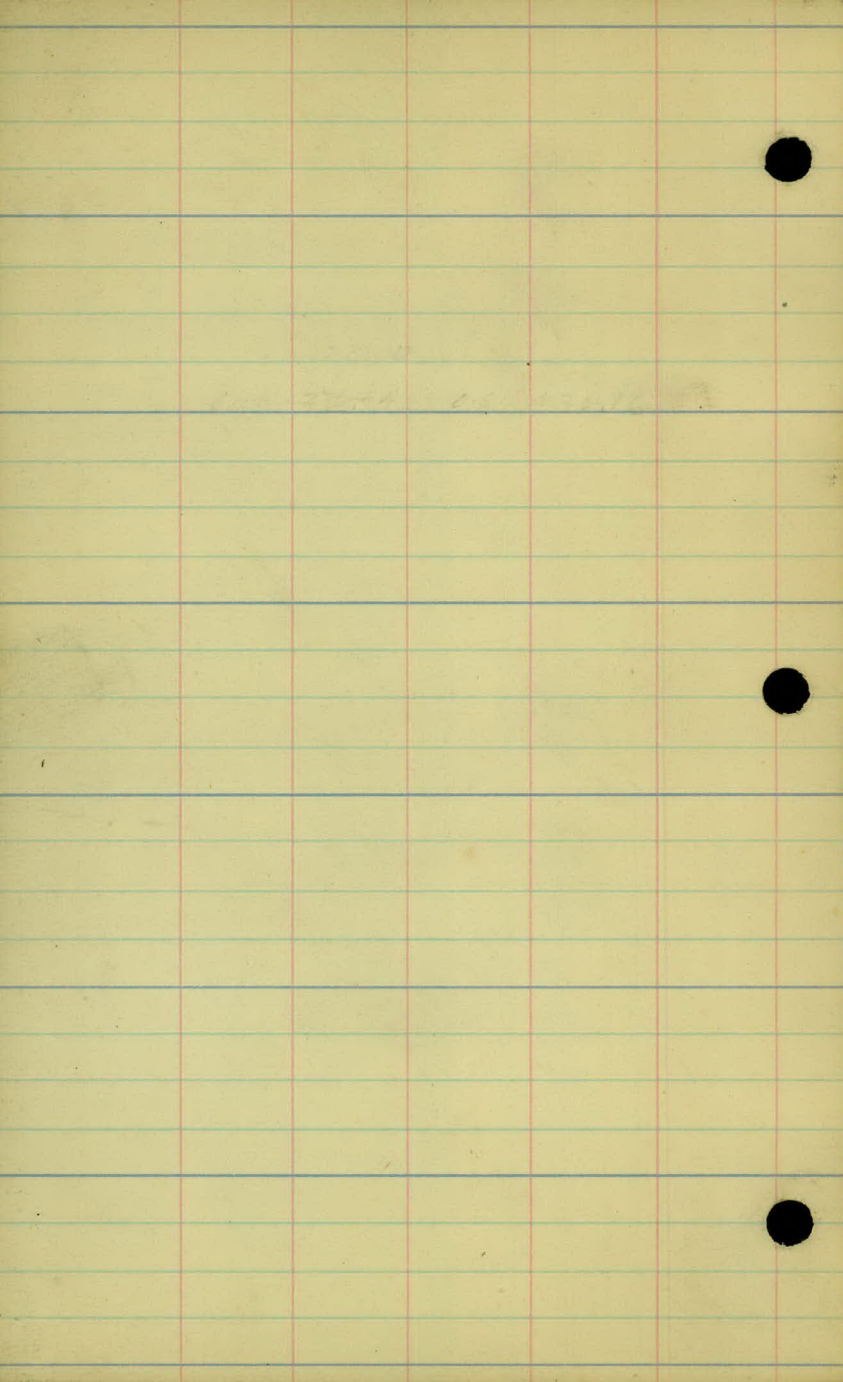
$$\frac{C3.6}{14.3}$$

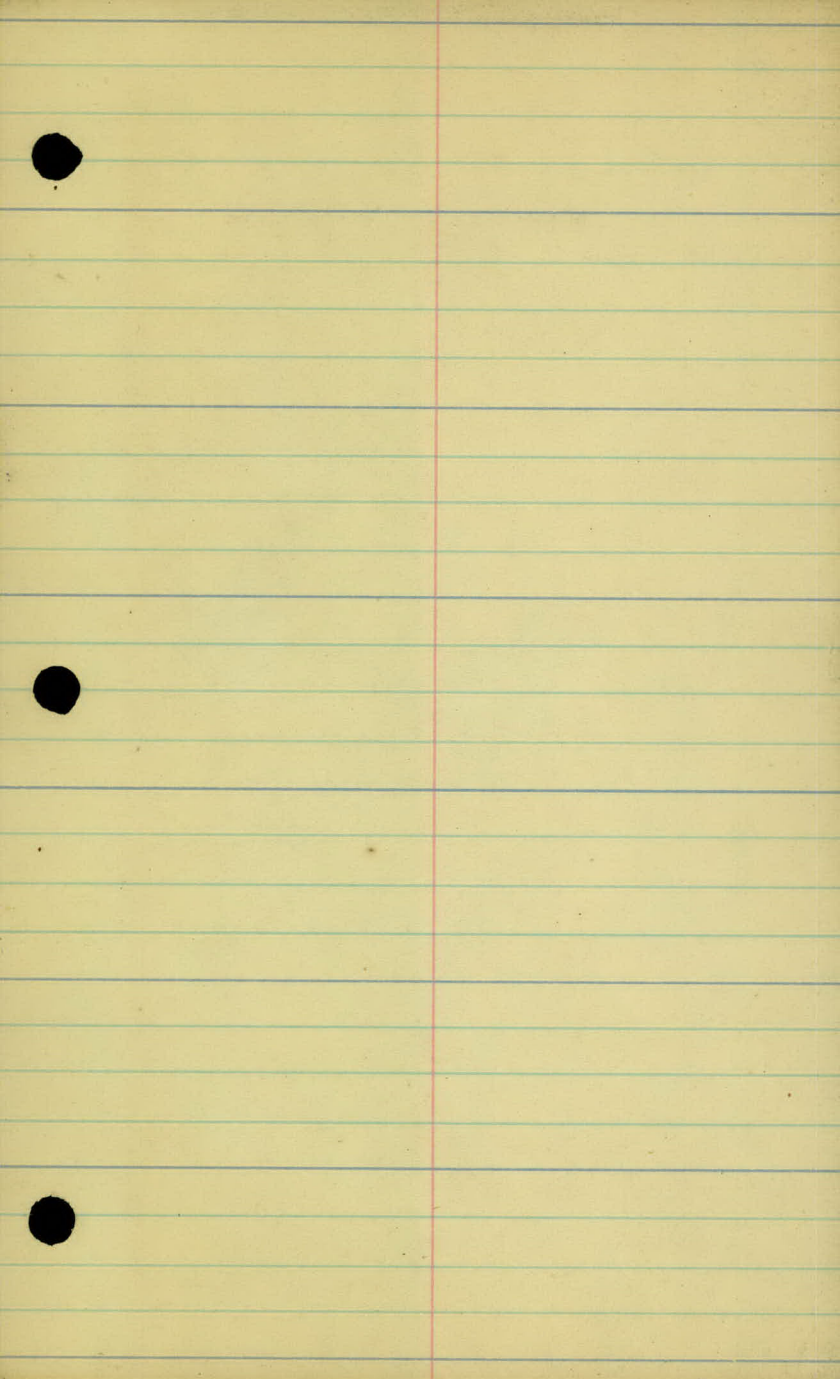
$$C3.6$$

$$\frac{C1.3}{9.3}$$

$$C1.3$$

$$C0.2$$





# Grave Pit Road Concrete Elevations.

B.M.

237.34

5.35 242.69

0+00

4.07 238.62

0+25

4.79 237.90 ✓

0+50

6.04 236.65 ✓

1+00

8.86 233.83 ✓

1+75

233.03 3.59 229.53 ✓

2+00

4.94 228.09 ✓

+25

6.38 226.65 ✓

+50

7.83 225.20 ✓

+75

9.22 223.81

+95

10.36 222.67

Sta.

87+00 New Grade on White Bear Rd.

@ 0+00 on Service Rd. 238<sup>00</sup> subgrade