

BK. 133 BK. 133 Dr. 16

OFFICE OF COUNTY ENGINEER  
RAMSEY CO. MINN.

STADIA Survey

Maunds View & Rose Twp.

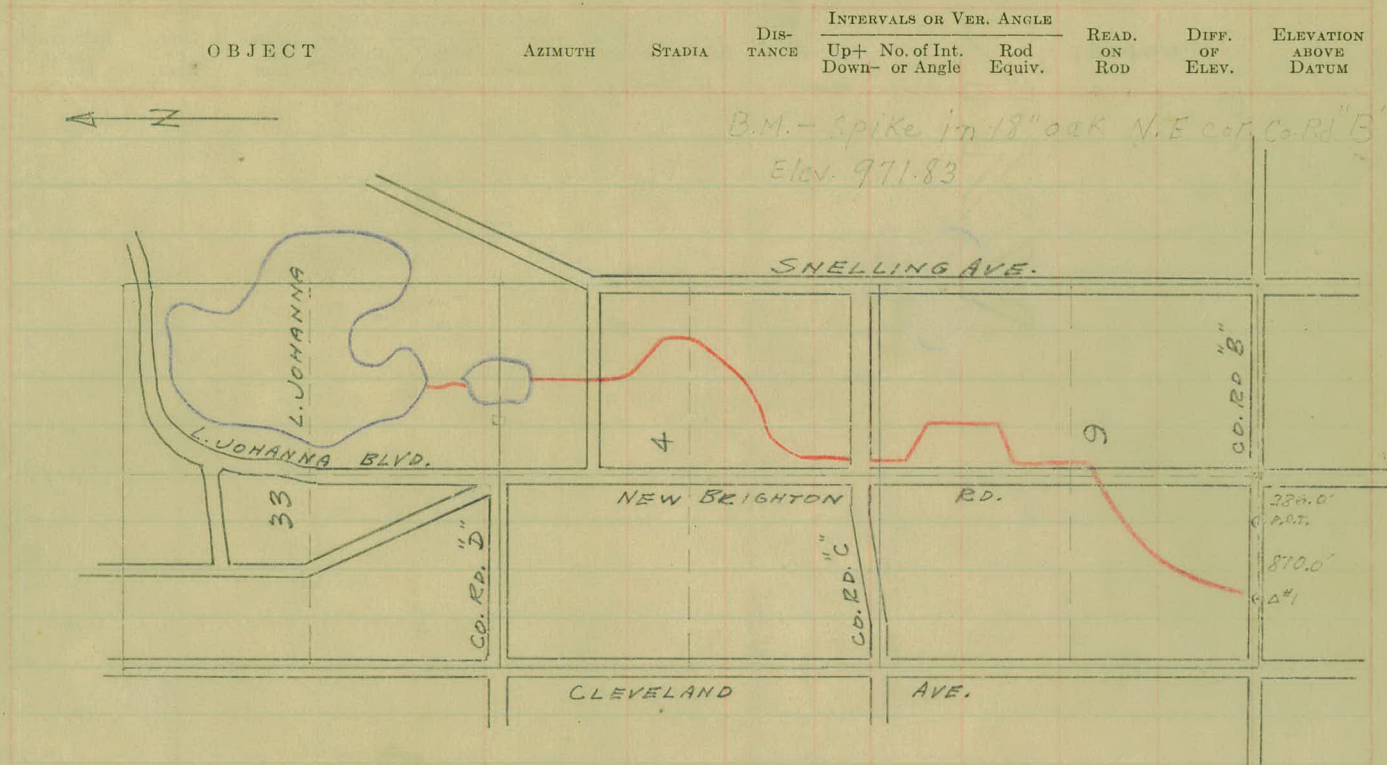
From Ditch # 4 To

Road Acc't. No.

Date Filed. 2-14-46

File

Page 1 Transit ..... Obs. .... Line COUNTY DITCH #4  
 Date ..... Rec. .... MOUNDS VIEW @ ROSE TOWNSHIPS





## INDEX

Page 2 Transit ..... Obs. .... Line .....  
 Date ..... Rec. ....

| <del>OBJECT</del><br>HUB. | <del>AZIMUTH</del><br>PAGE | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------------|----------------------------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                           |                            |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                           |                            |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
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Page 3 Transit ..... Obs. .... Line .....  
 Date ..... Rec. ....

| OBJECT | AZIMUTH | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------|---------|--------|----------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|        |         |        |          | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| HUB    | PAGE    |        |          |                         |                         |               |                    |                      |                             |
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Page 4 Transit ..... Obs. .... Line .....

Date..... Rec.....

Page 5 Transit Obs. LINPAHL Line DITCH #4  
 Date 10-18-44 Rec. NADON

| OBJECT               | AZIMUTH                                               | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------------------|-------------------------------------------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                      |                                                       |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| 0°-00' = NORTH.      | 90°-00' = EAST                                        |        |               |                         |                         |                    |                      |                             |
| H.I. = 5.01          | 969.67                                                |        |               |                         |                         |                    |                      |                             |
| AT Δ #1              | Co. Rd. "B"                                           |        |               |                         |                         |                    |                      |                             |
|                      | ON SO. SEC. LINE - SEC. 9, 1156' WEST OF S. 1/4 COR.. |        |               |                         |                         |                    |                      | 964.66                      |
| S 1/4 COR. SEC. 9    | 90°-00'                                               | 1156'  |               |                         |                         |                    |                      |                             |
| Δ #2                 | 13°-30'                                               | 7.80   |               |                         |                         | 8.40               |                      | 961.27                      |
| Co. Rd. B. 33' WIDE  | 90°-00'                                               | 2.30   |               |                         |                         | 4.7                |                      | 65.0                        |
| Toe Rd.              | 95°-30'                                               | 2.30   |               |                         |                         | 8.2                |                      | 61.5                        |
| " "                  | 84°-20'                                               | 2.45   |               |                         |                         | 5.3                |                      | 64.4                        |
| Edge Ditch N+S Fence | 354°-10'                                              | 2.30   |               |                         |                         | 9.4                |                      | 60.3                        |
| E+W Fence Line       | 12°-30'                                               | 2.40   |               |                         |                         | 6.9                |                      | 62.8                        |
| Co. Rd B             | 90°-00'                                               | 3.55   |               |                         |                         | 2.8                |                      | 66.9                        |
| Top Hill + F. Line   | 29°-00'                                               | 2.70   |               | +                       | 1°-35'                  | 7.5                | 5.0                  | +2.5 72.2                   |
| Toe Rd.              | 86°-40'                                               | 3.55   |               |                         |                         | 5.3                |                      | 64.4                        |
| Top Hill             | 61°-00'                                               | 2.47   |               | +                       | 1°-10'                  | 5.0                | 5.0                  | 0.0 69.7                    |
| Toe Rd.              | 93°-30'                                               | 3.55   |               |                         |                         | 6.5                |                      | 63.2                        |
| G.E                  | 69°-00'                                               | 1.95   |               |                         |                         | 6.4                |                      | 63.3                        |
| Co Rd B.             | 90°-00'                                               | 5.70   |               | +                       | 1                       | 5.70               | 0.50                 | +5.2 74.9                   |

Page 6 ..... Transit ..... Obs ..... Line .....Date 10-18-44 ..... Rec. ....

| #1                                         | OBJECT             | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         |               | READ. ON ROD | DIFF. OF ELEV. | ELEVATION ABOVE DATUM |
|--------------------------------------------|--------------------|----------|--------|----------|-------------------------|-------------------------|---------------|--------------|----------------|-----------------------|
|                                            |                    |          |        |          | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |              |                |                       |
|                                            | <u>H.I. 969.67</u> |          |        |          |                         |                         |               |              |                |                       |
| Toe Rd.                                    |                    | 80°-00'  | 1.90   |          |                         |                         |               | 8.8          |                | 960.9                 |
| " "                                        |                    | 88°-00'  | 5.70   |          | +                       | 1                       | 5.70          | 2.3          | +3.4           | 73.1                  |
| " "                                        |                    | 72°-30'  | 98     |          |                         |                         |               | 9.3          |                | 60.4                  |
| " "                                        |                    | 91°-50'  | 5.70   |          | +                       | 1                       | 5.70          | 2.0          | +5.5           | 75.2                  |
| G.E.                                       |                    | 30°-00'  | 1.30   |          |                         |                         |               | 7.7          |                | 62.0                  |
| Edge Ditch                                 |                    | 355°-00' | 1.34   |          |                         |                         |               | 8.5          |                | 61.2                  |
| " " & F.cor.                               |                    | 7°-15'   | 29     | -        |                         |                         |               | 9.1          |                | 60.6                  |
| ± Co.Rd. B.                                |                    | 270°-00' | 1.75   |          |                         |                         |               | 3.3          |                | 66.4                  |
| Toe Rd.                                    |                    | 263°-10' | 1.80   |          |                         |                         |               | 7.5          |                | 62.2                  |
| " "                                        |                    | 278°-00' | 1.78   |          |                         |                         |               | 8.7          |                | 61.0                  |
| ± Co.Rd. B.                                |                    | 270°-00' | 3.32   |          | +                       | 1                       | 3.32          | 1.2          | +2.1           | 71.8                  |
| Flow Line 18" C.M. CULV. <sup>OUTLET</sup> |                    | 350°-40' | 23     | -        |                         |                         |               | 10.60        |                | 59.07                 |
| Toe Rd.                                    |                    | 273°-20' | 3.33   |          | +                       | 1                       | 3.33          | 1.3          | +2.0           | 71.7                  |
| Fence cor. N. & E                          |                    | 274°-40' | 3.32   | -        | +                       | 1                       | 3.32          | 2.0          | +1.3           | 71.0                  |
| Toe Rd.                                    |                    | 267°-00' | 3.32   |          | +                       | 1                       | 3.32          | 2.9          | +0.4           | 70.1                  |
| Flow Line 18" C.M. CULV. <sup>INLET</sup>  |                    | 155°-30' | 28     | -        |                         |                         |               | 9.85         |                | 59.82                 |



Page 7 Transit. .... Obs. .... Line. Ditch 4  
 Date 10-20-44 Rec. ....

| #1 | OBJECT                                    | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------------------------------------|----------|--------|---------------|-------------------------|-----------------------------|--------|--------------------|----------------------|-----------------------------|
|    |                                           |          |        |               | Up+                     | No. of Int.                 | Rod    |                    |                      |                             |
|    |                                           |          |        |               | Down-                   | or Angle                    | Equiv. |                    |                      |                             |
|    | H.I. = 5.02 = 969.67                      |          |        |               |                         |                             |        |                    |                      |                             |
|    | A + Δ <sup>#</sup> 1                      |          |        |               |                         |                             |        |                    |                      |                             |
|    | S <sup>1</sup> / <sub>4</sub> Cor. Sec. 9 | 90°-00'  | 1156   |               |                         |                             |        |                    |                      |                             |
|    | G.E                                       | 104°-00' | 3.48   |               |                         |                             |        | 6.5                |                      | 963.2                       |
|    | "                                         | 106°-30' | 4.20   |               |                         |                             |        | 1.2                |                      | 68.5                        |
|    | "                                         | 125°-00' | 4.05   |               | +                       | 1                           | 4.05   | 0.90               | +3.1                 | 72.8                        |
|    | "                                         | 124°-30' | 3.30   |               |                         |                             |        | 6.2                |                      | 63.5                        |
|    | "                                         | 121°-50' | 2.84   |               |                         |                             |        | 9.0                |                      | 60.7                        |
|    | "                                         | 109°-20' | 2.25   |               |                         |                             |        | 9.0                |                      | 60.7                        |
|    | "                                         | 123°-40' | 1.20   |               |                         |                             |        | 7.9                |                      | 61.8                        |
|    | "                                         | 133°-30' | 1.72   |               |                         |                             |        | 5.0                |                      | 64.7                        |
|    | "                                         | 139°-10' | 2.25   |               |                         |                             |        | 4.3                |                      | 65.4                        |
|    | "                                         | 142°-20' | 3.00   |               |                         |                             |        | 1.3                |                      | 68.4                        |
|    | "                                         | 135°-45' | 3.66   |               |                         |                             |        | 0.90               |                      | 68.8                        |
|    | "                                         | 145°-10' | 4.00   |               |                         |                             |        | 4.2                |                      | 65.5                        |
|    | "                                         | 152°-30' | 4.60   |               |                         |                             |        | 6.0                |                      | 63.7                        |
|    | "                                         | 147°-45' | 4.80   |               |                         |                             |        | 3.0                |                      | 66.7                        |
|    | "                                         | 143°-45' | 5.10   |               | +                       | <sup>1</sup> / <sub>2</sub> | 2.55   | 0.0                | +2.5                 | 72.2                        |

Page 8 Transit.....Obs.....Line.....Date 10-20-44 Rec.....

| #1      | OBJECT<br>H.I. 969.67 | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |               |
|---------|-----------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|---------------|
|         |                       |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             | Rod<br>Equiv. |
| G.E     |                       | 158°-40' | 5.40   |               | +                       | $\frac{1}{2}$           | 2.70               | 7.70                 | -5.0                        | 964.7         |
| "       |                       | 159°-15' | 4.53   |               | +                       | $\frac{1}{2}$           | 2.26               | 5.4                  | -3.1                        | 66.6          |
| "       |                       | 150°-30' | 3.54   |               |                         |                         |                    | 4.2                  |                             | 65.5          |
| "       |                       | 160°-45' | 3.82   |               | +                       | $\frac{1}{2}$           | 1.91               | 0.3                  | +1.6                        | 71.3          |
| "       |                       | 157°-40' | 2.70   |               |                         |                         |                    | 7.3                  |                             | 62.4          |
| "       |                       | 164°-00' | 2.70   |               |                         |                         |                    | 4.7                  |                             | 65.0          |
| "       |                       | 159°-00' | 1.80   |               |                         |                         |                    | 7.1                  |                             | 62.6          |
| "       |                       | 175°-30' | 2.20   |               |                         |                         |                    | 3.6                  |                             | 66.1          |
| "       |                       | 182°-20' | 2.76   |               | +                       | $\frac{1}{2}$           | 1.38               | 0.0                  | +1.4                        | 71.1          |
| "       |                       | 201°-30' | 1.80   |               |                         |                         |                    | 6.4                  |                             | 63.3          |
| "       |                       | 202°-30' | 2.67   |               | +                       | $\frac{1}{2}$           | 1.3                | 0.2                  | +1.1                        | 70.8          |
| "       |                       | 237°-30' | 1.85   |               |                         |                         |                    | 6.7                  |                             | 63.0          |
| "       |                       | 225°-00' | 1.00   |               |                         |                         |                    | 9.0                  |                             | 60.7          |
| "       |                       | 170°-45' | 74     |               |                         |                         |                    | 9.3                  |                             | 60.4          |
| "       |                       | 165°-00' | 1.32   |               |                         |                         |                    | 8.7                  |                             | 61.0          |
| "       |                       | 175°-00' | 1.52   |               |                         |                         |                    | 8.4                  |                             | 61.3          |
| TOE RD. |                       | 171°-00' | 25     |               |                         |                         |                    | 9.4                  |                             | 60.3          |

Page 9 Transit ..... Obs. .... Line Ditch 4  
 Date 10-20-11 Rec. ....

| #1 | OBJECT                          | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|---------------------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                                 |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H. 1.969.67</u>              |          |        |               |                         |                               |               |                    |                      |                             |
|    | Fence cor. S & E                | 261°-40' | 1.69   | ✓             |                         |                               |               | 7.9                |                      | 961.8                       |
|    | G.E.                            | 256°-30' | 2.05   |               |                         |                               |               | 6.4                |                      | 63.3                        |
|    | "                               | 239°-30' | 2.50   | ✓             | +                       | 1                             | 2.50          | 1.80               | +0.7                 | 70.4                        |
|    | "                               | 256°-30' | 3.10   |               | +                       | 1                             | 3.10          | 1.7                | +1.4                 | 71.1                        |
|    | " & Swamp                       | 295°-15' | 3.70   |               |                         |                               |               | 10.10              |                      | 59.6                        |
|    | "                               | 293°-50' | 4.70   |               |                         |                               |               | 4.7                |                      | 65.0                        |
|    | "                               | 294°-30' | 5.15   |               | +                       | 1                             | 5.15          | 1.5                | +3.6                 | 73.3                        |
|    | "                               | 282°-00' | 5.70   |               |                         |                               |               | 0.0                |                      | 69.7                        |
|    | "                               | 312°-00' | 5.06   |               | +                       | 1                             | 5.06          | 1.6                | +3.5                 | 73.2                        |
|    | " & Not <sup>S</sup> Fence Line | 311°-30' | 4.48   | —             |                         |                               |               | 6.7                |                      | 63.0                        |
|    | " " "                           | 303°-00' | 3.95   | —             |                         |                               |               | 9.3                |                      | 60.4                        |
|    | "                               | 296°-00' | 2.92   |               |                         |                               |               | 8.1                |                      | 61.6                        |
|    | G.E.                            | 308°-20' | 3.03   |               |                         |                               |               | 6.3                |                      | 63.4                        |
|    | "                               | 320°-00' | 3.45   |               | +                       | $\frac{1}{2}$                 | 1.72          | 1.0                | +0.7                 | 70.4                        |
|    | "                               | 319°-00' | 2.52   |               |                         |                               |               | 8.1                |                      | 61.6                        |
|    | "                               | 297°-15' | 2.05   |               |                         |                               |               | 9.9                |                      | 59.8                        |
|    | "                               | 301°-00' | 1.09   |               |                         |                               |               | 9.5                |                      | 60.2                        |



Page 10.....Transit.....Obs.....Line.....Date 10-20-44.....Rec.....

| #1   | OBJECT<br><u>H.I. = 969.67</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|--------------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|      |                                |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| ±    | Ditch                          | 357°-45' | 30     | -             |                         |                         |               | 10.1               |                      | 959.6                       |
| Edge | "                              | 348°-30' | 30     |               |                         |                         |               | 9.5                |                      | 60.2                        |
| ±    | "                              | 353°-00' | 1.28   | -             |                         |                         |               | 11.1               |                      | 58.6                        |
| Edge | "                              | 350°-15' | 1.28   |               |                         |                         |               | 8.9                |                      | 60.8                        |
| G.E. |                                | 331°-30' | 1.45   |               |                         |                         |               | 8.0                |                      | 61.7                        |
| "    |                                | 335°-30' | 2.20   |               |                         |                         |               | 8.8                |                      | 60.9                        |
| ±    | Ditch                          | 352°-00' | 2.30   | -             |                         |                         |               | 11.5               |                      | 58.2                        |
| Edge | "                              | 350°-00' | 2.30   |               |                         |                         |               | 9.5                |                      | 60.2                        |
| ±    | "                              | 351°-30' | 3.20   | -             |                         |                         |               | 11.4               |                      | 58.3                        |
| Edge | " on ridge                     | 353°-30' | 3.20   |               |                         |                         |               | 4.30               |                      | 65.4                        |
| "    | " " "                          | 349°-00' | 3.32   |               |                         |                         |               | 3.0                |                      | 66.7                        |
| G.E. |                                | 334°-45' | 3.30   |               |                         |                         |               | 5.3                |                      | 64.4                        |
| "    |                                | 334°-15' | 2.95   |               |                         |                         |               | 7.0                |                      | 62.7                        |
| "    |                                | 348°-00  | 2.80   |               |                         |                         |               | 6.7                |                      | 63.0                        |

Page 11 ..... Transit. .... Obs. .... Line. ....  
 Date 10-20-44 ..... Rec. ....

| #2 | OBJECT                       | AZIMUTH                                   | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|------------------------------|-------------------------------------------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|    |                              |                                           |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|    |                              |                                           |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|    | H.I. = 4.37.                 | 965.64<br>965.76                          |        | 965.70        |                         |               |        |                    |                      | 961.33                      |
|    | A + $\Delta$ # 2 G.E. - 0.60 |                                           |        |               |                         |               |        |                    |                      | 761.27                      |
|    | $\Delta$ # 1                 | 193°-30'                                  | 7.80   |               | +                       | $\frac{1}{2}$ | 3.90   | 5.00               | -1.10                | 964.66                      |
|    | $\Delta$ # 3                 | 26°-00'                                   | 7.66   |               |                         |               |        | 5.92               |                      | 959.78                      |
|    | Check Azi.                   | 13°-12'                                   |        |               |                         |               |        |                    |                      |                             |
|    | $\Delta$ # 2 A               | 127°-13' 9.28<br><del>127°-30'</del> 4.38 |        |               | +                       | 1             | 9.38   | 5.88               | +3.50                | 969.20                      |
|    | Edge Ditch                   | 216°-00'                                  | 4.14   |               |                         |               |        | 5.3                |                      | 60.4                        |
|    | ☒ "                          | 217°-00'                                  | 4.16   | ✓             |                         |               |        | 9.7                |                      | 56.0                        |
|    | G.E.                         | 217°-30'                                  | 4.25   |               |                         |               |        | 5.6                |                      | 60.1                        |
|    | ☒ + Angle of Ditch           | 227°-50'                                  | 3.58   | ✓             |                         |               |        | 9.8                |                      | 55.9                        |
|    | Edge Ditch.                  | 227°-00'                                  | 3.55   |               |                         |               |        | 9.2                |                      | 56.5                        |
|    | G.E.                         | 228°-30'                                  | 3.60   |               |                         |               |        | 9.3                |                      | 56.4                        |
|    | "                            | 230°-30'                                  | 4.12   |               |                         |               |        | 9.1                |                      | 56.6                        |
|    | "                            | 224°-30'                                  | 4.70   |               |                         |               |        | 7.3                |                      | 58.4                        |
|    | "                            | 225°-00'                                  | 5.50   |               |                         |               |        | 3.0                |                      | 62.7                        |
|    | "                            | 234°-00'                                  | 5.86   |               | +                       | 1             | 5.86   | 2.3                | +3.6                 | 69.3                        |
|    | "                            | 234°-00'                                  | 4.93   |               |                         |               |        | 6.7                |                      | 59.0                        |

Page. 12.....Transit.....Obs.....Line.....

Date. 10-20-44.....Rec.....

| #2                       | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------|-------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                          |             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|                          | H.I. 965.70 |          |        |               |                         |                         |               |                    |                      |                             |
| G.E                      |             | 242°-45' | 5.06   |               |                         |                         |               | 2.2                |                      | 963.5                       |
| ♂ Ridge                  |             | 254°-30' | 4.53   |               | +                       | 1°-30'                  | 11.8          | 5.0                | +6.8                 | 72.5                        |
| G.E                      |             | 263°-30' | 3.92   |               | +                       | 1°-20'                  | 9.1           | 5.0                | +4.1                 | 69.8                        |
| "                        |             | 240°-30' | 3.85   |               |                         |                         |               | 7.1                |                      | 58.6                        |
| "                        |             | 237°-00' | 3.26   |               |                         |                         |               | 9.0                |                      | 56.7                        |
| "                        |             | 246°-30' | 3.03   |               |                         |                         |               | 7.7                |                      | 58.0                        |
| ♂ Ditch                  |             | 235°-20' | 2.67   | ✓             |                         |                         |               | 10.5               |                      | 55.2                        |
| Edge "                   |             | 234°-15' | 2.06   |               |                         |                         |               | 8.9                |                      | 56.8                        |
| " "                      |             | 237°-00' | 2.07   |               |                         |                         |               | 8.9                |                      | 56.8                        |
| G.E                      |             | 249°-00' | 2.05   |               |                         |                         |               | 7.0                |                      | 58.7                        |
| "                        |             | 270°-20' | 2.15   |               | +                       | 1°-45'                  | 6.6           | 5.0                | +1.6                 | 67.3                        |
| Edge Ditch               |             | 273°-45' | 1.00   |               |                         |                         |               | 7.1                |                      | 58.6                        |
| E "                      |             | 273°-15' | 93     | ✓             |                         |                         |               | 11.0               |                      | 54.7                        |
| Edge " & N & S Fence     |             | 273°-30' | 89     |               |                         |                         |               | 7.1                |                      | 58.6                        |
| " " Fence Follows E edge |             | 328°-30' | 1.44   |               |                         |                         |               | 9.4                |                      | 56.3                        |
| ♂ "                      |             | 329°-10' | 1.37   | ✓             |                         |                         |               | 11.8               |                      | 53.9                        |
| Edge "                   |             | 331°-00' | 1.32   |               |                         |                         |               | 9.0                |                      | 56.7                        |



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 Date 10-20-44 Rec.

| #2 | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | H.I. 965.70 |          |        |               |                         |                         |               |                    |                      |                             |
|    | G.E.        | 301°-00' | 2.00   |               |                         |                         |               | 3.4                |                      | 962.3                       |
|    | Top Knoll   | 271°-10' | 2.60   |               | +                       | 2°-30'                  | 11.3          | 5.0                | +6.3                 | 72.0                        |
|    | Ravine      | 307°-50' | 3.63   |               |                         |                         |               | 4.6                |                      | 61.1                        |
|    | " "         | 298°-50' | 3.80   |               | +                       | 0°-40'                  | 4.4           | 5.0                | -0.6                 | 65.1                        |
|    | Top Knoll   | 306°-45' | 5.10   |               | +                       | 1°-55'                  | 16.6          | 5.0                | +11.6                | 77.3                        |
|    | G.E.        | 316°-00' | 4.52   |               |                         |                         |               | 4.1                |                      | 61.6                        |
|    | "           | 320°-30' | 6.13   |               | +                       | $\frac{1}{2}$           | 3.06          | 2.1                | +1.0                 | 66.7                        |
|    | "           | 323°-45' | 5.35   |               |                         |                         |               | 7.5                |                      | 58.2                        |
|    | "           | 327°-45' | 4.70   |               |                         |                         |               | 10.1               |                      | 55.6                        |
|    | "           | 334°-45' | 5.00   |               |                         |                         |               | 8.8                |                      | 56.9                        |
|    | "           | 345°-45' | 4.85   |               |                         |                         |               | 2.3                |                      | 63.4                        |
|    | "           | 342°-15' | 4.30   |               |                         |                         |               | 8.7                |                      | 57.0                        |
|    | "           | 337°-30' | 3.70   |               |                         |                         |               | 11.0               |                      | 54.7                        |
|    | "           | 327°-30' | 3.40   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | "           | 316°-30' | 3.10   |               |                         |                         |               | 7.8                |                      | 57.9                        |
|    | "           | 356°-30' | 2.96   |               |                         |                         |               | 11.4               |                      | 54.3                        |
|    | "           | 01°-00'  | 4.40   |               |                         |                         |               | 4.8                |                      | 60.9                        |

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Date 10-20-44 Rec.

Page 15 Transit ..... Obs. .... Line Ditch 4  
 Date 10-20-44 Rec. ....

| #2<br>OBJECT | H.I. 965.70<br>AZIMUTH | STADIA | Dis-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------|------------------------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|              |                        |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E          | 81°-45'                | 4.60   |               |                         |                               |               | 1.1                |                      | 964.6                       |
| "            | 89°-45'                | 4.77   |               | +                       | $\frac{1}{2}$                 | 2.38          | 1.7                | +0.7                 | 66.4                        |
| Top Knoll    | 99°-40'                | 4.90   |               | +                       | $2\frac{1}{2}$                | 12.25         | 3.3                | +8.9                 | 74.6                        |
| G.E          | 102°-00'               | 4.20   |               |                         |                               |               | 5.5                |                      | 60.2                        |
| "            | 102°-00'               | 3.47   |               |                         |                               |               | 10.8               |                      | 54.9.                       |
| "            | 118°-30'               | 3.28   |               |                         |                               |               | 10.1               |                      | 55.6                        |
| "            | 122°-45'               | 3.52   |               |                         |                               |               | 8.6                |                      | 57.1.                       |
| "            | 127°-30'               | 4.29   |               |                         |                               |               | 10.1               |                      | 55.6                        |
| "            | 112°-00'               | 4.65   |               |                         |                               |               | 3.5                |                      | 62.2                        |
| "            | 117°-50'               | 5.40   |               |                         |                               |               | 8.7                |                      | 57.0                        |
| "            | 111°-50'               | 5.90   |               |                         |                               |               | 6.5                |                      | 59.2                        |
| "            | 120°-00'               | 5.80   |               |                         |                               |               | 10.3               |                      | 55.4.                       |
| "            | 121°-30'               | 6.70   |               |                         |                               |               | 7.8                |                      | 57.9.                       |
| "            | 124°-40                | 6.50   |               |                         |                               |               | 10.3               |                      | 55.4.                       |
| ± S. Ditch   | 128°-30'               | 7.00   | -             |                         |                               |               | 9.8                |                      | 55.9                        |
| Edge "       | 128°-00                | 7.00   |               |                         |                               |               | 8.4                |                      | 57.3                        |
| " "          | 128°-50'               | 7.05   |               |                         |                               |               | 8.1                |                      | 57.6                        |



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Date. 10-20-44 ..... Rec. ....

| #2 | OBJECT        | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|---------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |               |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | H.I. = 965.70 |          |        |               |                         |                         |               |                    |                      |                             |
|    | Edge Ditch    | 126°-00' | 8.08   |               |                         |                         |               | 1.8                |                      | 963.9.                      |
|    | ± S. "        | 126°-00' | 8.00   | -             |                         |                         |               | 4.1                |                      | 61.6                        |
|    | Edge "        | 125°-50' | 8.00   |               |                         |                         |               | 2.0                |                      | 63.7.                       |
|    | ± "           | 124°-45' | 8.60   | -             | +                       | 1/2                     | 4.30          | 7.6                | -3.3                 | 62.4.                       |
|    | G.E.          | 131°-00' | 8.13   | -             | +                       | 1                       | 8.13          | 3.7                | +4.4.                | 70.1.                       |
|    | "             | 136°-30' | 7.80   | -             | +                       | 1/2                     | 3.90          | 3.4                | +0.5                 | 66.2.                       |
|    | "             | 141°-00' | 8.00   |               | +                       | 1                       | 8.0           | 3.0                | +5.0                 | 70.7.                       |
|    | "             | 140°-30' | 7.07   |               |                         |                         |               | 8.7                |                      | 57.0                        |
|    | Toe Rd        | 157°-50' | 7.80   |               | +                       | 1                       | 7.80          | 8.1                | -0.3                 | 65.4.                       |
|    | G.E.          | 154°-45' | 7.30   |               | +                       | 1/2                     | 3.65          | 5.5                | -1.9.                | 63.8                        |
|    | " Top Knoll   | 157°-45' | 6.80   |               | +                       | 1                       | 6.80          | 2.9                | +3.9                 | 69.6                        |
|    | G.E.          | 148°-30' | 6.40   |               |                         |                         |               | 8.2                |                      | 57.5                        |
|    | "             | 156°-50' | 5.70   |               | +                       | 1/2                     | 2.85          | 3.5                | -0.7                 | 65.0                        |
|    | Top Knoll     | 156°-50' | 5.03   |               | +                       | 1/2                     | 2.51          | 0.3                | +2.2.                | 67.9.                       |
|    | G.E.          | 150°-00' | 5.00   |               |                         |                         |               | 8.7                |                      | 57.0                        |
|    | "             | 148°-20' | 3.90   |               |                         |                         |               | 8.5                |                      | 57.2                        |
|    | "             | 152°-30' | 3.24   |               |                         |                         |               | 8.8                |                      | 56.9.                       |

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 Date 10-20-44 Rec.....

| #2 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                    |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H.I. 965.70</u> |          |        |               |                         |                         |               |                    |                      |                             |
|    | G.E.               | 163°-00' | 3.70   |               |                         |                         |               | 4.1                |                      | 961.6                       |
|    | "                  | 149°-00' | 2.55   |               |                         |                         |               | 8.3                |                      | 57.4                        |
|    | "                  | 166°-00' | 1.76   |               |                         |                         |               | 4.5                |                      | 61.2                        |
|    | "                  | 164°-20' | .87    |               |                         |                         |               | 9.3                |                      | 56.4                        |
|    | "                  | 134°-45' | 1.40   |               |                         |                         |               | 8.1                |                      | 57.6                        |
|    | "                  | 104°-15' | 1.30   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | "                  | 122°-45' | .90    |               |                         |                         |               | 9.5                |                      | 56.2                        |
|    | "                  | 117°-30' | .70    |               |                         |                         |               | 8.3                |                      | 57.4                        |
|    | "                  | 151°-15' | .76    |               |                         |                         |               | 8.3                |                      | 57.4                        |
|    | "                  | 50°-45'  | 1.17   |               |                         |                         |               | 10.2               |                      | 55.5                        |
|    | "                  | 10°-30'  | 1.43   |               |                         |                         |               | 10.8               |                      | 54.9                        |
|    | "                  | 342°-30' | .85    |               |                         |                         |               | 7.7                |                      | 58.0                        |
|    | ± S. Ditch         | 19°-00'  | 2.48   | -             | -                       | $\frac{1}{2}$           | 1.2           | 11.6               | -12.8                | 52.9                        |
|    | G.F.               | 217°-00' | 1.55   |               |                         |                         |               | 7.5                |                      | 58.2                        |
|    | Edge Ditch         | 19°-40'  | 2.50   |               |                         |                         |               | 11.5               |                      | 53.9                        |
|    | " "                | 18°-30'  | 2.46   |               |                         |                         |               | 11.6               |                      | 54.1                        |
|    | G.F.               | 211°-10' | 2.80   |               |                         |                         |               | 4.1                |                      | 61.6                        |

Page 18 Transit ..... Obs. .... Line .....  
 Date 10-23-44 Rec. ....

| #2               | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------|--------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                  |                    |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                  |                    |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                  | <u>M.P. 965.70</u> |          |        |               |                         |             |        |                    |                      |                             |
| G.E              |                    | 27°-30'  | 3.12   |               |                         |             |        | 11.5               |                      | 954.2                       |
| "                |                    | 206°-40' | 3.28   |               |                         |             |        | 4.7                |                      | 61.0                        |
| "                |                    | 47°-40'  | 2.94   |               |                         |             |        | 11.5               |                      | 54.2                        |
| Ridge            |                    | 198°-20' | 4.26   |               |                         |             |        | 1.5                |                      | 64.2                        |
| Edge Ditch       |                    | 58°-20'  | 1.64   |               |                         |             |        | 11.1               |                      | 54.6                        |
| ☿ "              |                    | 58°-00'  | 1.61   | -             |                         |             |        | 12.3               |                      | 53.4                        |
| Edge "           |                    | 57°-45'  | 1.56   |               |                         |             |        | 10.9               |                      | 54.8                        |
| Top Hill         |                    | 187°-20' | 4.70   |               | +                       | 1           | 4.70   | 0.0                | +4.70                | 70.4                        |
| G.E              |                    | 199°-00' | 4.95   |               |                         |             |        | 3.8                |                      | 61.9                        |
| "                |                    | 18°-30'  | 1.80   |               |                         |             |        | 11.6               |                      | 54.1                        |
| "                |                    | 177°-10' | 4.31   |               |                         |             |        | 4.7                |                      | 61.0                        |
| E & W Fence Line |                    | 176°-45' | 5.20   | -             |                         |             |        | 0.0                |                      | 65.7                        |
| G.E              |                    | 162°-00' | 4.88   |               |                         |             |        | 2.1                |                      | 63.6                        |
| Edge Ditch       |                    | 101°-00' | 1.90   |               |                         |             |        | 11.1               |                      | 54.6                        |
| ☿ S. "           |                    | 101°-00' | 1.88   | -             |                         |             |        | 11.7               |                      | 54.0                        |
| Edge "           |                    | 102°-00' | 1.86   |               |                         |             |        | 11.2               |                      | 54.5                        |
| ☿ Draw           |                    | 178°-00' | 3.74   |               |                         |             |        | 6.4                |                      | 59.3                        |



Page 19 Transit ..... Obs. .... Line Ditch 4  
 Date 10-23-44 Rec. ....

| #2 | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |             |          |        |               | Up+                     | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | H. 1.965.70 |          |        |               |                         |                         |               |                    |                      |                             |
|    | G.E         | 104°-20' | 1.48   | —             |                         |                         |               | 10.8               |                      | 954.9                       |
|    | "           | 184°-00' | 2.90   | —             |                         |                         |               | 8.7                |                      | 57.0                        |
|    | "           | 177°-00' | 2.90   | —             |                         |                         |               | 7.8                |                      | 57.9                        |
|    | "           | 99°-30'  | 2.74   | —             |                         |                         |               | 11.5               |                      | 54.2                        |
|    | "           | 190°-40' | 3.14   |               |                         |                         |               | 7.5                |                      | 58.2                        |
|    | "           | 111°-40' | 3.33   |               |                         |                         |               | 10.4               |                      | 55.3                        |
|    | "           | 186°-00' | 2.33   |               |                         |                         |               | 8.8                |                      | 56.9                        |
|    | Edge Ditch  | 125°-00' | 2.90   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | £ S. "      | 125°-30' | 2.88   | —             |                         |                         |               | 11.3               |                      | 54.4                        |
|    | Edge "      | 126°-15' | 2.83   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | G.E         | 189°-00' | 1.85   |               |                         |                         |               | 8.4                |                      | 57.3                        |
|    | "           | 131°-45' | 2.60   |               |                         |                         |               | 9.9                |                      | 55.8                        |
|    | "           | 197°-15' | 1.55   |               |                         |                         |               | 9.3                |                      | 56.4                        |
|    | "           | 140°-00' | 3.52   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | "           | 218°-30' | 3.11   |               |                         |                         |               | 7.5                |                      | 58.2                        |
|    | Edge Ditch. | 134°-45' | 3.75   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | £ "         | 134°-50' | 3.77   | —             |                         |                         |               | 11.6               |                      | 54.1                        |

Page. 20 ..... Transit ..... Obs. .... Line. ....

Date. 10-23-11 ..... Rec. ....

| #2 | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | H.I. 965.70 |          |        |               |                         |                         |               |                    |                      |                             |
|    | Edge Ditch  | 134°-10' | 3.76   |               |                         |                         |               | 10.5               |                      | 955.2                       |
|    | G.E.        | 137°-45' | 2.72   |               |                         |                         |               | 8.9                |                      | 56.8                        |
|    | "           | 128°-45' | 4.10   |               |                         |                         |               | 10.0               |                      | 55.7                        |
|    | Edge Ditch  | 136°-20' | 4.10   | ✓             |                         |                         |               | 11.4               |                      | 54.3                        |
|    | Edge "      | 136°-45' | 4.10   |               |                         |                         |               | 10.7               |                      | 55.0                        |
|    | " "         | 136°-00' | 4.10   |               |                         |                         |               | 10.7               |                      | 55.0                        |
|    | G.E.        | 143°-15' | 4.10   |               |                         |                         |               | 10.4               |                      | 55.3                        |
|    | "           | 127°-30' | 5.22   |               |                         |                         |               | 10.7               |                      | 55.0                        |
|    | Edge Ditch  | 133°-30' | 4.90   | ✓             |                         |                         |               | 11.4               |                      | 54.3                        |
|    | Edge "      | 133°-45' | 4.90   |               |                         |                         |               | 10.8               |                      | 54.9                        |
|    | " "         | 133°-10' | 4.90   |               |                         |                         |               | 10.8               |                      | 54.9                        |
|    | G.E.        | 126°-00' | 6.30   |               |                         |                         |               | 10.5               |                      | 55.2                        |
|    | Edge Ditch  | 131°-00' | 5.89   | -             |                         |                         |               | 11.1               |                      | 54.6                        |
|    | Edge "      | 130°-45' | 5.90   |               |                         |                         |               | 10.7               |                      | 55.0                        |
|    | " "         | 131°-15' | 5.90   |               |                         |                         |               | 10.7               |                      | 55.0                        |
|    | G.E.        | 134°-30' | 5.68   |               |                         |                         |               | 11.0               |                      | 54.7                        |
|    | "           | 133°-00' | 6.88   |               |                         |                         |               | 10.3               |                      | 55.4                        |

Page 21 Transit. .... Obs. .... Line. .... Ditch 4  
 Date 10-23-44 Rec. ....

| #2                          | OBJECT             | AZIMUTH             | STADIA                                                         | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------|--------------------|---------------------|----------------------------------------------------------------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|                             |                    |                     |                                                                |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|                             |                    |                     |                                                                |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|                             | <u>H.I. 965.70</u> |                     | <u>Needle Reading</u>                                          |               |                         |               |        |                    |                      |                             |
| G.E.                        |                    | 139°-30'            | 5.48                                                           |               |                         |               |        | 10.3               |                      | 955.4                       |
| "                           |                    | 135°-50'            | 6.30                                                           |               |                         |               |        | 11.1               |                      | 54.6                        |
| "                           |                    | 145°-40'            | 5.42                                                           |               |                         |               |        | 10.1               |                      | 55.6                        |
| "                           |                    | 142°-00'            | 6.05                                                           |               |                         |               |        | 10.5               |                      | 55.2                        |
| "                           |                    | 142°-20'            | 6.68                                                           |               |                         |               |        | 10.0               |                      | 55.7                        |
| H.I. = 4.56                 | <b>#2-A</b>        |                     | $\left. \begin{matrix} 973.76 \\ 973.90 \end{matrix} \right\}$ |               |                         |               |        |                    |                      | 973.83                      |
| A + A #2 A                  | G.E. - 0.50        | 17°                 | Woods                                                          |               |                         |               |        |                    |                      | 969.27                      |
| A #2                        |                    | 307°-13'            | 2.28                                                           |               |                         |               |        |                    |                      |                             |
|                             |                    | <del>307°-30'</del> | <del>9.38</del>                                                |               | -                       | $\frac{1}{2}$ | 4.69   | 7.88               | -12.57               | 961.33                      |
| S. $\frac{1}{4}$ Cor. Sec 9 |                    | 130°-07'            | 3.07                                                           | -             | +                       | $\frac{1}{2}$ | 1.53   | 1.8                | -0.3                 | 973.5                       |
| N. & S. Fence Line          |                    | 292°-15'            | 55                                                             | -             |                         |               |        | 0.4                |                      | 73.4                        |
| ☿ Ravine                    |                    | 248°-00'            | 1.22                                                           |               |                         |               |        | 6.0                |                      | 67.8                        |
| Top Hill                    |                    | 231°-00'            | 2.66                                                           |               | +                       | 4°-10'        | 15.0   | 5.0                | +10.0                | 83.8                        |
| Fence Cor. E. W & N.        |                    | 165°-45'            | 1.71                                                           | -             |                         |               |        | 0.0                |                      | 73.8                        |
| Toe Rd.                     |                    | 140°-45'            | 2.25                                                           |               |                         |               |        | 2.7                |                      | 71.1                        |
| ☿ Co. Rd B                  |                    | 140°-45'            | 2.54                                                           |               | +                       | 1             | 2.54   | 1.7                | +0.8                 | 74.6                        |
| ☿ New Brighton Rd.          |                    | 101°-00'            | 2.36                                                           | -             |                         |               |        | 2.0                |                      | 71.8                        |
| Toe Rd.                     |                    | 101°-30'            | 2.12                                                           |               |                         |               |        | 7.5                |                      | 66.3                        |



Page. 22 Transit.....Obs.....Line.....  
 Date. 10-23-44 Rec.....

#2-A

OBJECT

H.I. 973.83

AZIMUTH

STADIA

DIS-  
TANCE

INTERVALS OR VER. ANGLE

Up+ No. of Int.  
Down- or Angle

Rod  
Equiv.

READ.  
ON  
ROD

DIFF.  
OF  
ELEV.

ELEVATION  
ABOVE  
DATUM

Fence cor. N. & W.

130°-15' 2.55

1.5

972.3

G.E

111°-30' 2.10

7.5

66.3

£ New Brighton Rd 20' past 36° W

69°-00' 2.50

3.2

70.6

Flow Line 24° concave V. N. end

110°-45' 2.14

1.1

8.9

-10.0

63.8

Toe Rd

66°-00' 2.26

9.7

64.1

£ Ditch

108°-40' 2.13

10.0

63.8

" "

84°-00' 2.01

10.2

63.6

Edge "

84°-00' 1.99

9.8

64.0

£ " 4" Ocep

70°-30' 2.05

10.4

63.4

G.E

85°-40' 1.57

8.6

65.2

£ Ditch

62°-20' 1.60

10.6

63.2

Top Knoll

95°-00' 1.28

4.3

69.5

Edge Ditch

64°-00' 1.52

9.7

64.1

" "

66°-00' 1.60

9.6

64.2

G.E

124°-40' .90

9.9

63.9

£ Ditch & Angle point

56°-10' 1.20

10.8

63.0

Edge "

54°-15' 1.20

9.3

64.5

Page 23 Transit ..... Obs. .... Line Ditch 4  
 Date 10-23-44 Rec. ....

| #2-A | OBJECT           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|      |                  |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|      | 4.1 973.83       |          |        |               |                         |                         |                    |                      |                             |
|      | Edge Ditch       | 57°-15'  | 1.20   |               |                         |                         | 9.1                |                      | 964.7                       |
|      | G.E              | 121°-00' | 1.50   |               |                         |                         | 8.5                |                      | 65.3                        |
|      | "                | 145°-00' | 1.50   |               |                         |                         | 2.3                |                      | 71.5                        |
|      | E Ditch          | 42°-10'  | .68    |               |                         |                         | 10.9               |                      | 62.9                        |
|      | Edge "           | 39°-00'  | .72    |               |                         |                         | 8.2                |                      | 65.6                        |
|      | N & S Fence Line | 190°-45' | .58    |               |                         |                         | 3.7                |                      | 70.1                        |
|      | Edge Ditch       | 43°-20'  | .59    |               |                         |                         | 8.3                |                      | 65.5                        |
|      | G.E              | 83°-00'  | .44    |               |                         |                         | 9.1                |                      | 64.7                        |
|      | Edge Ditch       | 350°-30' | .80    |               |                         |                         | 6.3                |                      | 67.5                        |
|      | G.E              | 72°-30'  | 1.10   |               |                         |                         | 7.6                |                      | 66.2                        |
|      | Edge Ditch       | 337°-00' | .67    |               |                         |                         | 6.2                |                      | 67.6                        |
|      | Ridge            | 39°-45'  | 2.45   |               |                         |                         | 1.3                |                      | 72.5                        |
|      | Toe Ridge        | 49°-45'  | 2.26   |               |                         |                         | 7.6                |                      | 66.2                        |
|      | N & S Fence Line | 320°-30' | 1.68   |               |                         |                         | 10.3               |                      | 63.5                        |
|      | Ridge            | 24°-45'  | 1.63   |               |                         |                         | 0.5                |                      | 73.3                        |
|      | "                | 343°-00' | 1.50   |               |                         |                         | 2.0                |                      | 71.8                        |
|      | Toe Ridge        | 43°-00'  | 1.35   |               |                         |                         | 7.4                |                      | 66.4                        |

Page 24 Transit ..... Obs. .... Line .....  
 Date 10-23-44 Rec. ....

| #2-A              | OBJECT      | AZIMUTH          | STADIA          | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------|-------------|------------------|-----------------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                   |             |                  |                 |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                   |             |                  |                 |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                   | H.I. 973.83 |                  |                 |               |                         |             |        |                    |                      |                             |
| Toe Ridge         |             | 345°-00'         | 1.05            |               |                         |             |        | 6.1                |                      | 967.7                       |
| Ridge             |             | 2°-00'           | 1.50            |               |                         |             |        | 2.2                |                      | 71.6                        |
| Toe "             |             | 358°-00'         | 90              |               |                         |             |        | 5.7                |                      | 68.1                        |
| H.I. = 4.78       | #3          | 964.56<br>967.57 | 964.56          |               |                         |             |        |                    |                      |                             |
| A+ Δ #3           | G.E. g.t.   |                  |                 |               |                         |             |        |                    |                      | 959.78                      |
| Δ #2              |             | 206°-00'         | 7.66            |               |                         |             |        | 3.24               |                      | 961.33                      |
| Δ #4              |             | 50°-21°          | 8.29            |               |                         |             |        | 11.40              |                      | 953.16                      |
| Check Azi.        |             | 41°-02'          | Top Radio Tower |               |                         |             |        |                    |                      |                             |
| Δ #3.A (NOT USED) |             | 35°-49'          | 5.89            |               | -                       | 1/2         |        | 10.53              |                      |                             |
| G.E.              |             | 192°-30'         | 2.34            |               |                         |             |        | 6.7                |                      | 57.9                        |
| Edge Ditch.       |             | 207°-45'         | 1.40            |               |                         |             |        | 11.4               |                      | 53.2                        |
| E "               |             | 210°-00'         | 1.43            |               | -                       | 3°-55'      | 9.8    | 5.0                | -14.8                | 49.8                        |
| Edge "            |             | 212°-10'         | 1.40            |               |                         |             |        | 11.9               |                      | 52.7                        |
| Toe Rd.           |             | 272°-20'         | 3.20            |               |                         |             |        | 7.6                |                      | 57.0                        |
| Δ Hy. #36         |             | 246°-20'         | 3.32            |               |                         |             |        | 3.9                |                      | 60.7                        |
| Edge Ditch.       |             | 213°-30'         | 2.50            |               |                         |             |        | 8.3                |                      | 56.3                        |



Page 25 Transit..... Obs..... Line Ditch 4  
 Date 10-23-44 Rec.....

| #3 | OBJECT<br><u>H.I. 964.56</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|------------------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|    |                              |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|    |                              |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|    | E Ditch                      | 212°-00' | 2.50   | —             | —                       | $\frac{1}{2}$ | 1.25   | 12.15              | -13.4                | 951.2                       |
|    | Edge "                       | 210°-30' | 2.50   |               |                         |               |        | 8.7                |                      | 55.9.                       |
|    | G.E                          | 294°-00' | 4.10   |               |                         |               |        | 10.2               |                      | 54.4                        |
|    | "                            | 229°-15' | 2.65   |               |                         |               |        | 8.7                |                      | 55.9.                       |
|    | "                            | 320°-30' | 4.92   |               |                         |               |        | 6.6                |                      | 58.0                        |
|    | E & W. Fence Line            | 238°-40' | 2.33   | —             |                         |               |        | 9.5                |                      | 55.1.                       |
|    | G.E                          | 328°-00' | 5.20   |               |                         |               |        | 7.5                |                      | 57.1.                       |
|    | Toe Rd                       | 254°-30' | 2.28   |               |                         |               |        | 10.0               |                      | 54.6                        |
|    | G.E                          | 338°-45' | 6.00   |               |                         |               |        | 3.6                |                      | 61.0                        |
|    | Toe Rd.                      | 260°-00' | 3.28   |               |                         |               |        | 6.5                |                      | 58.1.                       |
|    | G.E                          | 345°-45' | 6.90   |               |                         |               |        | 2.0                |                      | 62.6                        |
|    | E & W Fence Line             | 249°-45' | 3.50   | —             |                         |               |        | 5.9                |                      | 58.7.                       |
|    | G.E                          | 351°-00' | 7.50   |               |                         |               |        | 3.8                |                      | 60.8                        |
|    | "                            | 0°-00'   | 7.90   |               |                         |               |        | 3.5                |                      | 61.1.                       |
|    | "                            | 7°-00'   | 8.05   |               |                         |               |        | 7.8                |                      | 56.8                        |
|    | "                            | 9°-00'   | 9.10   |               |                         |               |        | 4.9                |                      | 59.7.                       |
|    | Flow Line 36" corr. culv.    | 212°-10' | 79     | —             |                         |               |        | 15.00              |                      | 49.56                       |

Page 26 ..... Transit ..... Obs. .... Line .....  
 Date 10-23-44 ..... Rec. ....

| #3                            | OBJECT<br><i>H.I. 964.56</i> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------------------|------------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                               |                              |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| G.E.                          |                              | 9°-50'   | 1030   |               | +                       | $\frac{1}{2}$           | 5.15               | 1.7                  | +3.4 968.0                  |
| "                             |                              | 15°-45'  | 10.75  |               |                         |                         |                    | 2.9                  | 61.7                        |
| Flow Line 36" conc. culv.     |                              | 355°-10' | .37    | ✓             |                         |                         |                    | 15.88                | 48.68                       |
| G.E.                          |                              | 17°-30'  | 9.60   |               |                         |                         |                    | 7.4                  | 59.2                        |
| Q. Hy. #36-32' B.T. 6' sh/dr. |                              | 112°-00' | 54     | ✓             |                         |                         |                    | 5.4                  | 59.2                        |
| Edge Shoulder                 |                              | 88°-00'  | 50     |               |                         |                         |                    | 5.3                  | 59.3                        |
| "                             |                              | 128°-00' | 67     |               |                         |                         |                    | 5.0                  | 59.6                        |
| Toe Rd.                       |                              | 140°-20' | 82     |               |                         |                         |                    | 11.5                 | 53.1                        |
| G.E.                          |                              | 17°-20'  | 7.90   |               |                         |                         |                    | 11.2                 | 53.4                        |
| E+W. Fence Line               |                              | 145°-00' | 1.50   | ✓             |                         |                         |                    | 9.0                  | 55.6                        |
| G.E.                          |                              | 3°-30'   | 7.10   |               |                         |                         |                    | 9.5                  | 55.1                        |
| "                             |                              | 140°-40' | 2.67   |               |                         |                         |                    | 3.7                  | 60.9                        |
| "                             |                              | 357°-40' | 5.94   |               |                         |                         |                    | 11.0                 | 53.6                        |
| Ridge                         |                              | 139°-40' | 3.80   |               | +                       | 1                       | 3.80               | 1.0                  | +2.8 67.4                   |
| G.E.                          |                              | 345°-15' | 4.75   |               |                         |                         |                    | 12.0                 | 52.6                        |
| Edge cut E+W Fence            |                              | 109°-00' | 3.66   | ✓             | +                       | 1                       | 3.66               | 0.80                 | +2.9 67.5                   |
| G.E.                          |                              | 333°-00' | 4.30   |               |                         |                         |                    | 12.4                 | 52.2                        |

Page 27 Transit ..... Obs. .... Line Ditch 4  
 Date 10-23-44 Rec. ....

| #3<br>OBJECT<br><u>H.I. 964.56</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|                                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|                                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
| Eq W. Fence + Top cut              | 116°-50' | 2.63   | —             |                         |               |        | 5.0                |                      | 959.6                       |
| G.E.                               | 320°-45' | 3.10   |               |                         |               |        | 12.30              |                      | 52.3                        |
| "                                  | 301°-30' | 2.78   |               |                         |               |        | 11.5               |                      | 53.1                        |
| Toe Rd.                            | 105°-45' | 2.46   |               |                         |               |        | 9.9                |                      | 54.7                        |
| Φ Hy. #36                          | 93°-00'  | 3.75   | —             |                         |               |        | 6.7                |                      | 57.9                        |
| Toe Rd.                            | 278°-30' | 1.57   |               |                         |               |        | 11.7               |                      | 52.9                        |
| Shldr. Rd.                         | 89°-20'  | 3.12   |               |                         |               |        | 5.7                |                      | 58.9                        |
| Toe Rd.                            | 77°-00'  | 1.06   |               |                         |               |        | 12.0               |                      | 52.6                        |
| Top cut                            | 83°-30'  | 3.70   |               |                         |               |        | 1.5                |                      | 63.1                        |
| Toe Rd.                            | 86°-40'  | 2.14   |               |                         |               |        | 8.7                |                      | 55.9                        |
| G.E.                               | 75°-30'  | 3.55   |               |                         |               |        | 5.3                |                      | 59.3                        |
| "                                  | 62°-20'  | 2.62   |               |                         |               |        | 11.4               |                      | 53.2                        |
| "                                  | 60°-30'  | 3.83   |               |                         |               |        | 7.6                |                      | 57.0                        |
| "                                  | 50°-00'  | 3.28   |               | -                       | $\frac{1}{2}$ | 1.64   | 11.0               | -12.6                | 52.0                        |
| Ridge                              | 52°-10'  | 4.30   |               |                         |               |        | 8.5                |                      | 56.1                        |
| G.E.                               | 44°-00'  | 3.88   |               | -                       | $\frac{1}{2}$ | 1.94   | 12.0               | -13.9                | 50.7                        |
| "                                  | 50°-20'  | 5.07   |               |                         |               |        | 10.8               |                      | 53.8                        |



Page 28 Transit ..... Obs. .... Line .....  
 Date 10-23-44 Rec. ....

| #         | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------|-------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|           |             |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| #3        | H.I. 964.56 |          |        |               |                         |                               |               |                    |                      |                             |
| G.E       |             | 42°-50'  | 4.30   |               | -                       | 1/2                           | 2.15          | 11.9               | -14.0                | 950.6                       |
| TOE RP.   |             | 3°-40'   | 0.27   |               |                         |                               |               | 14.0               |                      | 50.6                        |
| E DITCH   |             | 0°-00'   | 0.42   |               |                         |                               |               | 15.4               |                      | 49.2                        |
| TOP DITCH |             | 355°-00' | 0.42   |               |                         |                               |               | 14.0               |                      | 50.6                        |
| " "       |             | 208°-30' | 0.86   |               |                         |                               |               | 12.6               |                      | 52.0                        |
| " "       |             | 216°-20' | 0.88   |               |                         |                               |               | 12.5               |                      | 52.1                        |
| #4        | H.I. = 4.72 | 957.80   | 957.90 |               |                         |                               |               |                    |                      |                             |
| At Δ #4   |             |          |        |               |                         |                               |               |                    |                      | 953.18                      |
| Δ #3      |             | 230°-21' | 8.29   |               | +                       | 1/2                           | +4.14         | 2.29               | +1.85                | 959.78                      |
| Δ #5      |             | 38°-01'  | 5.90   |               |                         |                               |               | 6.3                |                      | 951.60                      |
| E Ditch   |             | 235°-40' | 7.25   |               |                         |                               |               | 9.6                |                      | 48.3                        |
| Top "     |             | 235°-20' | 7.25   |               |                         |                               |               | 9.0                |                      | 48.9                        |
| " "       |             | 236°-00' | 7.29   |               |                         |                               |               | 8.9                |                      | 49.0                        |
| G.E       |             | 230°-50' | 6.70   |               |                         |                               |               | 7.8                |                      | 50.1                        |
| "         |             | 239°-00' | 7.93   |               |                         |                               |               | 9.0                |                      | 48.9                        |
| "         |             | 232°-30' | 6.04   |               |                         |                               |               | 8.5                |                      | 49.4                        |

Page 29 Transit Ditch 4 Obs. Ditch 4 Line Ditch 4  
 Date 10-25-44 Rec.

| #4 | OBJECT               | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|----------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|    |                      |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|    |                      |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|    | <u>H.I. 957.90</u>   |          |        |               |                         |             |        |                    |                      |                             |
|    | G.E.                 | 244°-40' | 8.64   |               |                         |             |        | 8.0                |                      | 949.9                       |
|    | Top Ditch            | 243°-00' | 5.92   |               |                         |             |        | 9.6                |                      | 48.3                        |
|    | G.E.                 | 248°-50' | 7.92   |               |                         |             |        | 6.3                |                      | 51.6                        |
|    | "                    | 247°-30' | 7.35   |               |                         |             |        | 6.7                |                      | 51.2                        |
|    | Top Ditch            | 256°-00' | 4.70   |               |                         |             |        | 9.9                |                      | 48.0                        |
|    | G.E.                 | 245°-40' | 6.70   |               |                         |             |        | 9.9                |                      | 48.0                        |
|    | "                    | 247°-00' | 3.70   |               |                         |             |        | 9.1                |                      | 48.8                        |
|    | <del>Top</del> Ditch | 244°-00' | 5.90   | —             |                         |             |        | 10.7               |                      | 47.2                        |
|    | Top "                | 244°-30' | 5.95   |               |                         |             |        | 9.6                |                      | 48.3                        |
|    | G.E.                 | 265°-00' | 3.20   |               |                         |             |        | 8.9                |                      | 49.0                        |
|    | <del>Top</del> Ditch | 250°-30' | 5.28   | —             |                         |             |        | 10.8               |                      | 47.1                        |
|    | Top "                | 250°-45' | 5.30   |               |                         |             |        | 10.1               |                      | 47.8                        |
|    | " "                  | 275°-40' | 3.86   |               |                         |             |        | 9.1                |                      | 48.8                        |
|    | G.E.                 | 251°-40' | 6.12   |               |                         |             |        | 9.7                |                      | 48.2                        |
|    | Top Ditch            | 277°-30' | 2.62   |               |                         |             |        | 8.5                |                      | 49.4                        |
|    | G.E.                 | 259°-15' | 6.90   |               |                         |             |        | 8.0                |                      | 49.9                        |
|    | "                    | 257°-45' | 2.60   |               |                         |             |        | 7.0                |                      | 50.9                        |

Page 30 Transit ..... Obs. .... Line .....  
 Date 10-25-44 Rec. ....

| #4                              | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------------------|--------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                                 |                    |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                                 |                    |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                                 | <u>H. 1.957.90</u> |          |        |               |                         |             |        |                    |                      |                             |
| G.E.                            |                    | 248°-10' | 1.55   |               |                         |             |        | 7.8                |                      | 950.1                       |
| "                               |                    | 266°-00' | 5.50   |               |                         |             |        | 9.3                |                      | 48.6                        |
| Top Ditch                       |                    | 279°-00' | 1.40   |               |                         |             |        | 8.4                |                      | 49.5                        |
| £ "                             |                    | 263°-10' | 4.45   | -             |                         |             |        | 10.5               |                      | 47.4                        |
| Top "                           |                    | 263°-20' | 4.50   |               |                         |             |        | 9.8                |                      | 48.1                        |
| Angle "                         |                    | 276°-00' | 3.90   | -             |                         |             |        | 10.1               |                      | 47.8                        |
| Top "                           |                    | 296°-00' | 56     |               |                         |             |        | 8.0                |                      | 49.9                        |
| " "                             |                    | 277°-10' | 3.90   |               |                         |             |        | 8.5                |                      | 49.4                        |
| Flow Line 3'x3' Conc. Box Culv. | With Headwall      | 294°-30' | 41     | -             |                         |             |        | 11.10              |                      | 46.8                        |
| G.E.                            |                    | 276°-00' | 5.60   |               |                         |             |        | 7.9                |                      | 50.0                        |
| Toe Rd.                         |                    | 286°-00' | 40     |               |                         |             |        | 7.7                |                      | 50.2                        |
| G.E.                            |                    | 285°-20' | 5.70   |               |                         |             |        | 5.1                |                      | 52.8                        |
| Toe Rd.                         |                    | 218°-30' | 57     |               |                         |             |        | 8.2                |                      | 49.7                        |
| £ N. Brighton Rd.               |                    | 198°-00' | 47     | -             |                         |             |        | 4.9                |                      | 53.0                        |
| " " "                           |                    | 186°-00' | 1.33   |               |                         |             |        | 4.6                |                      | 53.3                        |
| G.E.                            |                    | 287°-20' | 4.10   |               |                         |             |        | 7.9                |                      | 50.0                        |
| Toe Rd.                         |                    | 176°-30' | 1.35   |               |                         |             |        | 7.4                |                      | 50.5                        |



Page. 31 ..... Transit ..... Obs. ..... Line. Ditch 4  
 Date. 10-25-44 ..... Rec. ....

| #4       | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------|--------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|          |                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|          |                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|          | <u>H. 1.957.90</u> |          |        |               |                         |               |        |                    |                      |                             |
| ☒        | Ditch              | 278°-20' | 2.84   | —             |                         |               |        | 10.5               |                      | 947.4                       |
| Top      | "                  | 279°-30' | 2.85   |               |                         |               |        | 8.5                |                      | 49.4                        |
| Toe Rd.  |                    | 196°-45' | 1.40   |               |                         |               |        | 7.5                |                      | 50.4                        |
| G.E.     |                    | 297°-30' | 2.50   |               |                         |               |        | 6.7                |                      | 51.2                        |
| "        |                    | 224°-10' | 1.30   |               |                         |               |        | 8.2                |                      | 49.7                        |
| "        |                    | 311°-00' | 3.00   |               |                         |               |        | 7.4                |                      | 50.5                        |
| "        |                    | 320°-30' | 3.72   |               |                         |               |        | 5.9                |                      | 52.0                        |
| "        |                    | 217°-10' | 2.50   |               |                         |               |        | 6.5                |                      | 51.4                        |
| "        |                    | 206°-00' | 3.40   |               |                         |               |        | 4.8                |                      | 53.1                        |
| ☒        | Ditch              | 282°-30' | 1.29   | —             |                         |               |        | 11.1               |                      | 46.8                        |
| Top      | "                  | 285°-00' | 1.30   |               |                         |               |        | 8.0                |                      | 49.9                        |
| "        | Hill               | 200°-00' | 4.30   |               | +                       | $\frac{1}{2}$ | 2.15   | 0.0                | +2.15                | 60.0                        |
| G.E.     | "                  | 190°-00' | 3.29   |               |                         |               |        | 1.0                |                      | 56.9                        |
| ☒        | N. Brighton Rd     | 162°-15' | 3.15   |               |                         |               |        | 2.7                |                      | 55.2                        |
| S. Ditch |                    | 304°-00' | 54     |               |                         |               |        | 9.8                |                      | 48.1                        |
| Toe Rd.  |                    | 178°-20' | 3.10   |               |                         |               |        | 4.6                |                      | 53.3                        |
| " "      |                    | 186°-20' | 3.10   |               |                         |               |        | 4.4                |                      | 53.5                        |

Page 32 Transit.....Obs.....Line.....  
 Date 10-25-44 Rec.....

| #4                      | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------------|--------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|                         |                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|                         |                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|                         | <u>H.I. 957.90</u> |          |        |               |                         |               |        |                    |                      |                             |
| G.E                     |                    | 143°-20' | 1.50   |               |                         |               |        | 9.1                |                      | 948.8                       |
| "                       |                    | 164°-30' | 2.60   |               |                         |               |        | 5.7                |                      | 52.2                        |
| "                       |                    | 163°-40' | 3.33   |               |                         |               |        | 8.0                |                      | 49.9                        |
| "                       |                    | 118°-20' | 2.20   |               |                         |               |        | 9.3                |                      | 48.6                        |
| Drive to model airport. |                    | 162°-30' | 3.50   |               |                         |               |        | 6.5                |                      | 51.4                        |
| "                       | "                  | 137°-20' | 4.65   |               | +                       | $\frac{1}{2}$ | 2.3    | 2.5                | -0.2                 | 57.7                        |
| G.E                     |                    | 111°-50' | 2.52   |               |                         |               |        | 8.5                |                      | 49.4                        |
| "                       |                    | 164°-10' | 2.40   |               |                         |               |        | 9.6                |                      | 48.3                        |
| "                       |                    | 127°-00' | 4.10   |               |                         |               |        | 0.3                |                      | 57.6                        |
| "                       |                    | 92°-10'  | 2.33   |               |                         |               |        | 10.1               |                      | 47.8                        |
| "                       |                    | 108°-30' | 4.20   |               |                         |               |        | 4.7                |                      | 53.2                        |
| "                       |                    | 88°-00'  | 2.33   |               |                         |               |        | 10.3               |                      | 47.6                        |
| "                       |                    | 95°-00'  | 4.35   |               |                         |               |        | 1.8                |                      | 56.1                        |
| "                       |                    | 68°-20'  | 2.65   |               |                         |               |        | 10.5               |                      | 47.4                        |
| "                       |                    | 80°-30'  | 4.86   |               |                         |               |        | 3.8                |                      | 54.1                        |
| "                       |                    | 57°-00'  | 3.13   |               |                         |               |        | 10.7               |                      | 47.2                        |
| "                       |                    | 71°-30'  | 5.92   |               |                         |               |        | 5.1                |                      | 52.8                        |

Page 33 Transit ..... Obs. .... Line Ditch 4  
 Date 10-25-44 Rec. ....

| #4<br>OBJECT<br><u>H.I. 957.90</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                    |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E.                               | 52°-00'  | 3.80   |               |                         |                               |               | 11.1               |                      | 946.8                       |
| "                                  | 69°-15'  | 4.40   |               |                         |                               |               | 7.4                |                      | 50.5                        |
| "                                  | 45°-00'  | 3.30   |               |                         |                               |               | 8.4                |                      | 49.5                        |
| "                                  | 77°-15'  | 3.72   |               |                         |                               |               | 8.5                |                      | 49.4                        |
| "                                  | 29°-20'  | 2.90   |               |                         |                               |               | 1.6                |                      | 56.3                        |
| "                                  | 102°-10' | 3.13   |               |                         |                               |               | 7.2                |                      | 50.7                        |
| Top Hill                           | 16°-10'  | 3.55   |               |                         |                               |               | 0.0                |                      | 57.9                        |
| Top Ditch.                         | 5°-30'   | 3.30   |               | +                       | $\frac{1}{2}$                 | 1.6           | 1.5                | +0.1                 | 58.0                        |
| G.E.                               | 134°-00' | 3.32   |               |                         |                               |               | 5.8                |                      | 52.1                        |
| Top Ditch.                         | 7°-00'   | 2.40   |               |                         |                               |               | 3.8                |                      | 54.1                        |
| G.E.                               | 144°-00' | 2.77   |               |                         |                               |               | 8.5                |                      | 49.4                        |
| "                                  | 18°-30'  | 2.35   |               |                         |                               |               | 4.8                |                      | 53.1                        |
| Ridge                              | 35°-50'  | 2.45   |               |                         |                               |               | 3.0                |                      | 54.9                        |
| G.E.                               | 66°-10'  | 1.55   |               |                         |                               |               | 7.9                |                      | 50.0                        |
| Flow Line 3'x3' conc Box culv      | 27°-30'  | .16    |               |                         |                               |               | 11.92              |                      | 45.98 -                     |
| G.E.                               | 57°-30'  | .62    |               |                         |                               |               | 7.6                |                      | 50.3                        |
| Angle Ditch.                       | 45°-30'  | 24     |               |                         |                               |               | 11.6               |                      | 46.3                        |



Page 34.....Transit.....Obs.....Line.....Date 10-25-44.....Rec.....

| #4               | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------|-------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                  |             |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                  |             |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                  | H.I. 957.90 |          |        |               |                         |             |        |                    |                      |                             |
| Top Ditch        | 13' Berm    | 44°-30'  | 41     |               |                         |             |        | 4.7                |                      | 953.2                       |
| "                | "           | 24°-30'  | 27     |               |                         |             |        | 6.6                |                      | 51.3                        |
| Edge Berm        |             | 102°-30' | 27     |               |                         |             |        | 4.5                |                      | 53.4                        |
| Toe "            |             | 111°-45' | 35     |               |                         |             |        | 7.2                |                      | 50.7                        |
| Edge "           |             | 158°-00' | 15     |               |                         |             |        | 4.5                |                      | 53.4                        |
| ☿ Ditch          |             | 5°-30'   | 1.65   | -             |                         |             |        | 11.6               |                      | 46.3                        |
| ☿ N. Brighton Rd |             | 354°-20' | 1.63   |               |                         |             |        | 5.6                |                      | 52.3                        |
| Top Ditch        |             | 2°-30'   | 1.66   |               |                         |             |        | 6.4                |                      | 51.5                        |
| Toe Rd           |             | 346°-50' | 1.68   |               |                         |             |        | 8.3                |                      | 49.6                        |
| ☿ Ditch          |             | 2°-50'   | 3.20   | -             |                         |             |        | 11.8               |                      | 46.1                        |
| Toe Rd           |             | 353°-40' | 3.26   |               |                         |             |        | 6.5                |                      | 51.4                        |
| Top Ditch        |             | 1°-00'   | 3.25   |               |                         |             |        | 5.6                |                      | 52.3                        |
| ☿ "              |             | 1°-40'   | 4.50   | -             |                         |             |        | 11.8               |                      | 46.1                        |
| ☿ N. Brighton Rd |             | 357°-40' | 4.50   |               |                         |             |        | 4.1                |                      | 53.8                        |
| Top Ditch        |             | 3°-40'   | 4.50   |               |                         |             |        | 4.0                |                      | 53.9                        |
| Toe Rd           |             | 354°-10' | 4.53   |               |                         |             |        | 6.2                |                      | 51.7                        |
| Top Ditch        |             | 0°-30'   | 4.50   |               |                         |             |        | 5.0                |                      | 52.9                        |

Page 35 Transit ..... Obs. .... Line Ditch 4  
 Date 10-25-44 Rec. ....

| #4<br>OBJECT       | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|----------|--------|----------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                    |          |        |          | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| Top Ditch          | 0°-00'   | 5.55   |          |                         |                               |               | 4.3                |                      | 953.6                       |
| ± N. Brighton Rd   | 358°-00' | 5.55   |          |                         |                               |               | 3.6                |                      | 54.3                        |
| Toe Rd.            | 356°-00' | 5.55   |          |                         |                               |               | 5.4                |                      | 52.5                        |
| ± Ditch            | 1°-30'   | 5.55   |          |                         |                               |               | 12.0               |                      | 45.9                        |
| Top "              | 2°-45'   | 5.55   |          |                         |                               |               | 5.2                |                      | 52.7                        |
| Mon. Center sec. 9 | 358°-20' | 6.70   |          |                         |                               |               | 3.1                |                      | 54.8                        |
| Top Ditch          | 2°-10'   | 6.56   |          |                         |                               |               | 5.4                |                      | 52.5                        |
| Toe Rd.            | 356°-40' | 6.70   |          |                         |                               |               | 5.5                |                      | 52.4                        |
| Angle Ditch        | 1°-30'   | 6.62   |          | -                       | 1/2                           | 3.31          | 9.1                | -12.4                | 45.5                        |
| Top "              | 0°-00'   | 6.74   |          |                         |                               |               | 4.1                |                      | 53.8                        |
| ± N. Brighton Rd   | 358°-40' | 8.80   |          |                         |                               |               | 0.7                |                      | 57.2                        |
| ± S. Ditch to No.  | 1°-15'   | 6.86   |          |                         |                               |               | 10.8               |                      | 47.1                        |
| Toe Rd.            | 357°-20' | 8.90   |          |                         |                               |               | 4.3                |                      | 53.6                        |
| Top S. Ditch.      | 1°-00'   | 8.00   |          |                         |                               |               | 8.6                |                      | 49.3                        |
| G.E.               | 1°-15'   | 7.88   |          |                         |                               |               | 7.9                |                      | 50.0                        |
| Top S Ditch        | 0°-20'   | 7.90   |          |                         |                               |               | 7.1                |                      | 50.8                        |
| " "                | 0°-50'   | 8.60   |          |                         |                               |               | 7.0                |                      | 50.9                        |

Page <sup>36</sup> ..... Transit ..... Obs. .... Line. ....Date. <sup>10-25-44</sup> ..... Rec. ....

| #  | OBJECT                         | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|    |                                |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|    |                                |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
| #4 | H.I. 957.90                    |          |        |               |                         |             |        |                    |                      |                             |
|    | Top Ditch.                     | 0°-30'   | 8.70   |               |                         |             |        | 6.7                |                      | 951.2                       |
|    | E Drive                        | 0°-01'   | 9.00   |               |                         |             |        | 3.0                |                      | 54.9                        |
| #5 | H.I. = 4.36 G.E. - 0.6         | 955.96   | 955.94 |               |                         |             |        |                    |                      | 951.58                      |
|    | A + A #5                       | 955.92   |        |               |                         |             |        |                    |                      | <del>951.60</del>           |
|    | A #4                           | 218°-01' | 5.90   |               |                         |             |        | 2.74               |                      | 953.18                      |
|    | A #6                           | 28°-35'  | 6.25   |               |                         |             |        | 5.33               |                      | 950.61                      |
|    | Angle Ditch.                   | 358°-50' | 3.95   | -             |                         |             |        | 11.5               |                      | 44.4                        |
|    | Top "                          | 357°-40' | 3.90   |               |                         |             |        | 10.8               |                      | 45.1                        |
|    | " "                            | 359°-15' | 3.90   |               |                         |             |        | 10.5               |                      | 45.4                        |
|    | G.E.                           | 222°-00' | 1.50   |               |                         |             |        | 7.5                |                      | 48.4                        |
|    | E Ditch.                       | 358°-15' | 3.05   | -             |                         |             |        | 11.4               |                      | 44.5                        |
|    | Top "                          | 359°-00' | 3.05   |               |                         |             |        | 10.8               |                      | 45.1                        |
|    | " "                            | 357°-30' | 3.05   |               |                         |             |        | 11.1               |                      | 44.8                        |
|    | G.E.                           | 257°-20' | 1.10   |               |                         |             |        | 7.3                |                      | 48.6                        |
|    | Flowline 12" C.I. CULV. outlet | 358°-00' | 2.00   | -             |                         |             |        | 12.30              |                      | 43.64                       |
|    | G.E.                           | 318°-45' | 1.40   |               |                         |             |        | 7.6                |                      | 48.3                        |



Page 37 Transit ..... Obs. .... Line. Ditch 4  
 Date 10-25-44 Rec. ....

| #5 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                    |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H1 = 955.94</u> |          |        |               |                         |                         |               |                    |                      |                             |
|    | * Ditch            | 338°-45' | 2.18   | -             |                         |                         |               | 11.1               |                      | 944.8                       |
|    | Top "              | 339°-30' | 2.24   |               |                         |                         |               | 8.7                |                      | 47.2                        |
|    | G.E                | 305°-00' | 2.50   |               |                         |                         |               | 3.4                |                      | 52.5                        |
|    | Top Ditch          | 338°-00' | 2.10   |               |                         |                         |               | 7.8                |                      | 48.1                        |
|    | Ridge              | 287°-45' | 2.46   |               | +                       | $\frac{1}{2}$           | 1.23          | 0.4                | +0.8                 | 56.7                        |
|    | "                  | 266°-50' | 2.52   |               |                         |                         |               | 0.7                |                      | 55.2                        |
|    | Edge Pot Hole      | 211°-30' | 2.14   |               |                         |                         |               | 7.1                |                      | 48.8                        |
|    | * Ditch            | 312°-00' | 2.55   | -             |                         |                         |               | 11.0               |                      | 44.9                        |
|    | G.E Pot Hole       | 187°-00' | 1.93   |               |                         |                         |               | 9.4                |                      | 46.5                        |
|    | Top Ditch.         | 323°-20' | 2.70   |               |                         |                         |               | 3.7                |                      | 52.2                        |
|    | " "                | 320°-10' | 2.49   |               |                         |                         |               | 3.4                |                      | 52.5                        |
|    | G.E. Pot Hole      | 174°-00' | 1.90   |               |                         |                         |               | 10.1               |                      | 45.8                        |
|    | Top Ditch.         | 309°-45' | 2.93   |               |                         |                         |               | 1.1                |                      | 54.8                        |
|    | G.E Pot Hole.      | 158°-00' | 2.07   |               |                         |                         |               | 8.5                |                      | 47.4                        |
|    | Edge "             | 170°-00' | 2.20   |               |                         |                         |               | 8.6                |                      | 47.3                        |
|    | " "                | 190°-20' | 2.55   |               |                         |                         |               | 8.7                |                      | 47.2                        |
|    | * Ditch            | 311°-10' | 3.00   | -             |                         |                         |               | 10.7               |                      | 45.2                        |

Page 38 Transit ..... Obs. .... Line .....  
 Date 10-25-44 Rec. ....

| #5 | OBJECT                         | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------------------|----------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|    |                                |          |        |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|    | H.I. 955.94                    |          |        |               |                         |             |               |                    |                      |                             |
|    | Edge Pot Hole                  | 207°-45' | 2.65   |               |                         |             |               | 6.9                |                      | 949.0                       |
|    | Top Ditch                      | 314°-00' | 3.11   |               | +                       | 1/2         | 1.55          | 2.8                | -1.3                 | 54.6                        |
|    | Edge Pot Hole                  | 180°-30' | 1.48   |               |                         |             |               | 8.5                |                      | 47.4                        |
|    | " "                            | 147°-30' | 1.61   |               |                         |             |               | 8.5                |                      | 47.4                        |
|    | Top Ditch                      | 306°-00' | 3.65   |               |                         |             |               | 4.3                |                      | 51.6                        |
|    | " "                            | 305°-00' | 3.56   |               |                         |             |               | 10.5               |                      | 45.4                        |
|    | Top "                          | 303°-10' | 3.50   |               |                         |             |               | 4.1                |                      | 51.8                        |
|    | G.E.                           | 296°-40' | 3.06   |               |                         |             |               | 4.0                |                      | 51.9                        |
|    | "                              | 307°-40' | 2.68   |               |                         |             |               | 2.9                |                      | 53.0                        |
|    | Flow Line 12" c.l. culv. inlet | 148°-50' | 1.66   |               |                         |             |               | 11.30              |                      | 44.64                       |
|    | G.E.                           | 358°-40' | 2.05   |               |                         |             |               | 10.9               |                      | 45.0                        |
|    | Draw                           | 141°-00' | 1.34   |               |                         |             |               | 8.1                |                      | 47.8                        |
|    | G.E.                           | 0°-00'   | 1.05   |               |                         |             |               | 8.4                |                      | 47.5                        |
|    | Draw                           | 107°-30' | 90     |               |                         |             |               | 7.8                |                      | 48.1                        |
|    | "                              | 36°-50'  | 1.32   |               |                         |             |               | 10.1               |                      | 45.8                        |
|    | G.E.                           | 35°-45'  | 88     |               |                         |             |               | 8.3                |                      | 47.6                        |
|    | Ridge                          | 126°-00' | 3.27   |               | +                       | 1°-55'      | 10.9          | 5.0                | +5.9                 | 61.8                        |

Page 39 Transit ..... Obs. .... Line Ditch 4  
 Date 10-25-44 Rec. ....

| #5                     | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------------|-------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                        |             |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                        |             |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                        | H.I. 955.94 |          |        |               |                         |             |        |                    |                      |                             |
| G.E                    |             | 186°-40' | 88     |               |                         |             |        | 6.8                |                      | 949.1                       |
| Ridge                  |             | 114°-00' | 2.42   |               | +                       | 1           | 2.42   | 1.2                | +1.2                 | 57.1                        |
| G.E                    |             | 166°-30' | 2.50   |               |                         |             |        | 6.9                |                      | 49.0                        |
| "                      |             | 148°-20' | 2.85   |               |                         |             |        | 5.5                |                      | 50.4                        |
| "                      |             | 90°-20'  | 1.92   |               |                         |             |        | 4.2                |                      | 51.7                        |
| "                      |             | 132°-00' | 2.50   |               |                         |             |        | 3.3                |                      | 52.6                        |
| Draw                   |             | 80°-00'  | 1.88   |               |                         |             |        | 5.8                |                      | 50.1                        |
| "                      |             | 90°-45'  | 2.60   |               |                         |             |        | 4.1                |                      | 51.8                        |
| G.E                    |             | 119°-30' | 1.47   |               |                         |             |        | 4.8                |                      | 51.1                        |
| Ridge                  |             | 71°-16'  | 3.11   |               |                         |             |        | 1.1                |                      | 54.8                        |
| G.E                    |             | 69°-00'  | 1.50   |               |                         |             |        | 7.0                |                      | 48.9                        |
| Ridge                  |             | 57°-40'  | 2.91   |               | +                       | 1/2         | 1.45   | 1.3                | +0.1                 | 56.0                        |
| G.E                    |             | 62°-40'  | 2.25   |               |                         |             |        | 5.0                |                      | 50.9                        |
| E & W. F. Line & Ridge |             | 50°-30'  | 3.15   | ✓             | +                       | 2           | 6.30   | 3.8                | +2.5                 | 58.4                        |
| G.E                    |             | 38°-10'  | 1.95   |               |                         |             |        | 7.9                |                      | 48.0                        |
| E & W. F. Line         |             | 42°-30'  | 2.70   | ✓             |                         |             |        | 2.4                |                      | 53.5                        |
| G.E                    |             | 323°-20' | 3.50   |               |                         |             |        | 2.8                |                      | 53.1                        |



Page 40 Transit ..... Obs. .... Line .....Date 10-25-44 ..... Rec. ....

| #5       | OBJECT        | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------|---------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|          |               |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|          | H.I. = 955.94 |          |        |               |                         |                         |               |                    |                      |                             |
| G.E      |               | 9°-00'   | 2.94   |               |                         |                         |               | 10.2               |                      | 945.7                       |
| "        |               | 330°-20' | 4.30   |               | +                       | $\frac{1}{2}$           | 2.15          | 1.8                | +0.3                 | 56.2                        |
| "        |               | 22°-00'  | 3.05   |               |                         |                         |               | 7.1                |                      | 48.8                        |
| "        |               | 335°-10' | 5.20   |               |                         |                         |               | 4.0                |                      | 51.9                        |
| "        |               | 31°-15'  | 3.27   |               |                         |                         |               | 1.7                |                      | 54.2                        |
| "        |               | 337°-30' | 5.73   |               |                         |                         |               | 3.5                |                      | 52.4                        |
| "        |               | 33°-00'  | 4.10   |               | +                       | $\frac{1}{2}$           | 2.05          | 2.5                | -0.4                 | 55.5                        |
| "        |               | 346°-30' | 5.60   |               |                         |                         |               | 7.5                |                      | 48.4                        |
| "        |               | 27°-00'  | 4.75   |               |                         |                         |               | 6.9                |                      | 49.0                        |
| "        |               | 347°-00' | 4.85   |               |                         |                         |               | 7.2                |                      | 48.7                        |
| "        |               | 20°-30'  | 4.35   |               |                         |                         |               | 7.7                |                      | 48.2                        |
| "        |               | 339°-30' | 3.87   |               |                         |                         |               | 6.1                |                      | 49.8                        |
| "        |               | 16°-00'  | 3.70   |               |                         |                         |               | 8.3                |                      | 47.6                        |
| "        |               | 347°-00' | 3.12   |               |                         |                         |               | 9.3                |                      | 46.6                        |
| "        |               | 349°-45' | 4.05   |               |                         |                         |               | 8.7                |                      | 47.2                        |
| ☒ Ditch. |               | 9°-30'   | 4.24   |               |                         |                         |               | 12.1               |                      | 43.8                        |
| Top "    |               | 9°-45'   | 4.20   |               |                         |                         |               | 8.5                |                      | 47.4                        |

Page 41 Transit. .... Obs. .... Line. Ditch 4  
 Date 10-25-44 Rec. ....

| #5 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|    |                    |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|    |                    |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|    | <u>H.I. 955.94</u> |          |        |               |                         |             |        |                    |                      |                             |
|    | Top Ditch          | 9°-00'   | 4.30   |               |                         |             |        | 8.6                |                      | 947.3                       |
|    | "                  | 17°-20'  | 4.74   | -             |                         |             |        | 12.2               |                      | 43.7                        |
|    | Top "              | 18°-00'  | 4.70   |               |                         |             |        | 7.9                |                      | 48.0                        |
|    | " "                | 16°-50'  | 4.80   |               |                         |             |        | 8.6                |                      | 47.3                        |
|    | G. E.              | 1°-40'   | 5.60   |               |                         |             |        | 5.0                |                      | 50.9                        |
|    | "                  | 2°-00'   | 4.80   |               |                         |             |        | 7.7                |                      | 48.2                        |
|    | "                  | 354°-00' | 5.52   |               |                         |             |        | 6.4                |                      | 49.5                        |
|    | "                  | 355°-00' | 4.85   |               |                         |             |        | 8.2                |                      | 47.7                        |
|    | "                  | 349°-20' | 6.50   |               |                         |             |        | 8.0                |                      | 47.9                        |
|    | "                  | 343°-00' | 6.20   |               |                         |             |        | 5.5                |                      | 50.4                        |
|    | "                  | 350°-30' | 7.30   |               |                         |             |        | 7.4                |                      | 48.5                        |
|    | "                  | 351°-10' | 8.00   |               |                         |             |        | 6.9                |                      | 49.0                        |
|    | "                  | 344°-50' | 7.30   |               |                         |             |        | 4.6                |                      | 51.3                        |
|    | "                  | 351°-15' | 8.35   |               |                         |             |        | 5.2                |                      | 50.7                        |
|    | "                  | 346°-45' | 8.45   |               |                         |             |        | 2.3                |                      | 53.6                        |
|    | "                  | 358°-20' | 7.70   |               |                         |             |        | 5.1                |                      | 50.8                        |
|    | "                  | 2°-10'   | 7.60   |               |                         |             |        | 3.8                |                      | 52.1                        |

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 Date 10-26-44 Rec. ....

| #  | OBJECT                 | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|------------------------|------------------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|    |                        |                  |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|    |                        |                  |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
| #5 | H.I. 955.94            |                  |        |               |                         |             |        |                    |                      |                             |
|    | G.E.                   | 1°-50'           | 6.60   |               |                         |             |        | 4.7                |                      | 951.2                       |
|    | "                      | 357°-15'         | 6.12   |               |                         |             |        | 4.9                |                      | 51.0                        |
| #6 | H.I. = 4.45 G.E. - 0.5 | 955.94<br>954.98 | 955.02 |               |                         |             |        |                    |                      | 950.57                      |
|    | AT Δ #6                |                  |        |               |                         |             |        |                    |                      | 950.61                      |
|    | Δ #5                   | 208°-35'         | 6.25   |               |                         |             |        | 3.40               |                      | 951.58                      |
|    | Δ #7                   | 11°-18'          | 6.08   |               | -                       | 2           | -12.16 | 9.60               | -21.76               | 933.26                      |
|    | £ Ditch                | 208°-30'         | 1.10   | -             |                         |             |        | 12.0               |                      | 43.0                        |
|    | Top "                  | 208°-40'         | 1.16   |               |                         |             |        | 6.0                |                      | 49.0                        |
|    | " "                    | 209°-00'         | 98     |               |                         |             |        | 5.5                |                      | 49.5                        |
|    | G.E.                   | 186°-20'         | 2.00   |               | +                       | 1/2         | 1.00   | 1.0                | 0.0                  | 55.0                        |
|    | "                      | 295°-30'         | 1.40   |               |                         |             |        | 3.3                |                      | 51.7                        |
|    | Top Hill               | 190°-00'         | 2.48   |               | +                       | 2°-50'      | 12.3   | 5.0                | +7.3                 | 62.3                        |
|    | G.E.                   | 304°-45'         | 2.40   |               | +                       | 1           | 2.40   | 2.8                | -0.4                 | 54.6                        |
|    | "                      | 321°-30'         | 1.47   |               | +                       | 2°-30'      | 6.4    | 5.0                | +1.4                 | 56.4                        |
|    | Top Knoll              | 343°-15'         | 90     |               | +                       | 4°-10'      | 6.5    | 5.0                | +1.5                 | 56.5                        |
|    | G.E. Draw              | 149°-30'         | 2.85   |               |                         |             |        | 8.0                |                      | 47.0                        |



Page 43 Transit ..... Obs. .... Line Ditch 4  
 Date 10-26-44 Rec. ....

| #6<br>OBJECT | AZIMUTH  | STADIA | Dis-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|              |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E.         | 18°-20'  | 89     |               |                         |                               |               | 7.3                |                      | 947.7                       |
| Ridge.       | 8°-00'   | 1.17   |               |                         |                               |               | 3.7                |                      | 51.3                        |
| "            | 32°-00'  | 1.46   |               |                         |                               |               | 6.9                |                      | 48.1                        |
| £ Draw       | 154°-00' | 3.47   |               |                         |                               |               | 6.9                |                      | 48.1                        |
| G.E.         | 141°-30' | 3.70   |               |                         |                               |               | 4.1                |                      | 50.9                        |
| Top Ditch.   | 166°-30' | 90     |               |                         |                               |               | 8.4                |                      | 46.6                        |
| £ "          | 166°-30' | 95     | —             | —                       | 1                             | .95           | 11.8               | -12.8                | 42.2                        |
| Top "        | 167°-00' | 1.04   |               |                         |                               |               | 8.3                |                      | 46.7                        |
| G.E.         | 131°-00' | 3.87   |               | +                       | 1                             | 3.87          | 2.8                | +1.0                 | 56.0                        |
| Top Ditch    | 131°-50' | 1.12   |               |                         |                               |               | 9.2                |                      | 45.8                        |
| Angle " £    | 132°-00' | 1.09   | —             | —                       | 1                             | 1.09          | 12.15              | -13.2                | 41.8                        |
| Top "        | 132°-00' | 1.00   |               |                         |                               |               | 9.3                |                      | 45.7                        |
| " Hill       | 123°-45' | 4.00   |               | +                       | 1°-55'                        | 13.4          | 5.0                | +8.4                 | 63.4                        |
| " "          | 112°-50' | 3.12   |               | +                       | 2°-20'                        | 12.7          | 5.0                | +7.7                 | 62.7                        |
| G.E.         | 105°-30' | 2.22   |               | +                       | 1/2                           | 1.11          | 0.9                | +0.2                 | 55.2                        |
| Top Ditch.   | 68°-20'  | 72     |               |                         |                               |               | 11.9               |                      | 43.1                        |
| £ "          | 70°-20'  | 78     | —             |                         |                               |               | 15.5               |                      | 39.5                        |

Page 44 Transit.....Obs.....Line.....Date 10-21-44 Rec.....

| #6        | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------|--------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|           |                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|           |                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|           | <u>H.I. 955.02</u> |          |        |               |                         |               |        |                    |                      |                             |
| G.E.      |                    | 115°-40' | 1.48   |               |                         |               |        | 8.2                |                      | 946.8                       |
| Top Ditch |                    | 76°-40'  | 89     |               | -                       | $\frac{1}{2}$ | 0.4    | 11.9               | -12.3                | 42.7                        |
| G.E.      |                    | 79°-00'  | 120    |               |                         |               |        | 7.5                |                      | 47.5                        |
| "         |                    | 72°-10'  | 31     |               |                         |               |        | 9.0                |                      | 46.0                        |
| Ridge     |                    | 307°-30' | 40     |               |                         |               |        | 2.7                |                      | 52.3                        |
| G.E.      |                    | 156°-30' | 1.43   |               |                         |               |        | 8.7                |                      | 46.3                        |
| "         |                    | 220°-30' | 64     |               |                         |               |        | 6.0                |                      | 49.0                        |
| "         |                    | 187°-20' | 1.55   |               |                         |               |        | 4.9                |                      | 50.1                        |
| "         |                    | 129°-00' | 50     |               |                         |               |        | 8.7                |                      | 46.3                        |
| E Ditch   |                    | 48°-50'  | 1.78   |               | -                       | 2             | 4.00   | 15.4               | -19.4                | 35.6                        |
| Top "     |                    | 46°-45'  | 1.96   |               |                         |               |        | 15.0               |                      | 40.0                        |
|           |                    | 49°-00   | 2.08   |               |                         |               |        | 14.5               |                      | 40.5                        |
| G.E. Draw |                    | 73°-30'  | 2.11   |               |                         |               |        | 9.1                |                      | 45.9                        |
| "         |                    | 80°-40'  | 2.67   |               |                         |               |        | 6.0                |                      | 49.0                        |
| G.E.      |                    | 41°-40'  | 1.80   |               |                         |               |        | 12.0               |                      | 43.0                        |
| "         |                    | 86°-30'  | 3.34   |               |                         |               |        | 3.2                |                      | 51.8                        |
| "         |                    | 59°-00'  | 2.22   |               |                         |               |        | 12.2               |                      | 42.8                        |

Page 45 Transit.....Obs.....Line. Ditch 4  
 Date 10-26-44 Rec.....

| #6              | OBJECT             | AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------|--------------------|---------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|                 |                    |         |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|                 |                    |         |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|                 | <u>H.I. 955.02</u> |         |        |               |                         |               |        |                    |                      |                             |
| G.E.            |                    | 87°-20' | 4.60   |               | +                       | 1°-05'        | 8.7.   | 5.0                | +3.7                 | 958.7                       |
| "               |                    | 74°-15' | 5.10   |               |                         |               |        | 1.7                |                      | 53.3                        |
| "               |                    | 67°-50' | 2.46   |               |                         |               |        | 6.4                |                      | 48.6                        |
| "               |                    | 70°-20' | 4.30   |               |                         |               |        | 6.3                |                      | 48.7.                       |
| "               |                    | 68°-40' | 3.11   |               |                         |               |        | 2.8                |                      | 52.2                        |
| "               |                    | 78°-50' | 3.90   |               |                         |               |        | 4.1                |                      | 50.9.                       |
| "               |                    | 63°-00' | 3.72   |               |                         |               |        | 5.5                |                      | 49.5                        |
| "               |                    | 54°-00' | 3.20   |               | -                       | $\frac{1}{2}$ | 1.6    | 12.0               | -13.6                | 41.4.                       |
| "               |                    | 56°-30' | 4.48   |               |                         |               |        | 9.5                |                      | 45.5                        |
| "               |                    | 51°-30' | 5.10   |               |                         |               |        | 8.2                |                      | 46.8                        |
| "               |                    | 45°-40' | 3.90   |               | -                       | 1             | 3.9    | 12.3               | +6.2                 | 38.8                        |
| "               |                    | 38°-50' | 5.35   |               | -                       | $\frac{1}{2}$ | 2.7    | 10.5               | -13.2                | 41.8.                       |
| Fence Cor N+ W. |                    | 42°-50' | 4.40   | -             | -                       | 1             | 4.4    | 10.4               | -14.8                | 40.2                        |
| G.E.            |                    | 32°-20' | 5.28   |               |                         |               |        | 11.7               |                      | 43.3                        |
| "               |                    | 31°-45' | 4.50   |               | -                       | $\frac{1}{2}$ | 2.2    | 11.8               | -14.0                | 41.0                        |
| Top Knoll.      |                    | 23°-50' | 6.40   |               |                         |               |        | 12.0               |                      | 43.0                        |
| G.E.            |                    | 26°-30' | 6.50   |               | -                       | $\frac{1}{2}$ | 3.2    | 9.7                | -12.9                | 42.1                        |



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 Date 10-26-44 Rec. ....

| #  | OBJECT                 | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM          |
|----|------------------------|------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|--------------------------------------|
|    |                        |                  |        |               | Up+                     | No. of Int.<br>or Angle |                    |                      |                                      |
| #6 | G.E. Ridge             | 19°-00'          | 6.00   |               | -                       | $\frac{1}{2}$           | 3.00               | 12.4                 | -15.4                                |
|    | H.I. = 4.45 G.E. - 0.5 | 937.71<br>937.63 | 937.67 |               |                         |                         |                    |                      | 939.6<br>933.22<br><del>933.26</del> |
| #7 | A + A #7               |                  |        |               |                         |                         |                    |                      |                                      |
|    | Δ #6                   | 191°-18'         | 6.08   |               | +                       | 3                       | +18.24             | 5.30                 | +12.94                               |
|    | Δ #8                   | 348°-22'         | 7.58   |               | -                       | $\frac{1}{2}$           | -3.79              | 11.90                | -15.69                               |
|    |                        |                  |        |               |                         |                         |                    |                      | 921.98                               |
|    | Top Ditch              | 174°-50'         | 3.72   |               | +                       | 1                       | 3.72               | 3.8                  | 0.0                                  |
|    | "                      | 175°-50'         | 3.74   | -             | +                       | 1                       | 3.74               | 9.0                  | -5.3                                 |
|    | Top "                  | 178°-00'         | 3.65   |               | +                       | 1                       | 3.65               | 3.9                  | -0.3                                 |
|    | Top Hill               | 222°-15'         | 4.50   |               | +                       | 2°-50'                  | 22.3               | 5.0                  | +17.3                                |
|    | G.E.                   | 232°-30'         | 3.72   |               | +                       | 2°-15'                  | 14.6               | 5.0                  | +9.6                                 |
|    | "                      | 250°-40'         | 3.88   |               | +                       | 2°-13'                  | 15.0               | 5.0                  | +10.0                                |
|    | "                      | 181°-00'         | 4.10   |               | +                       | 1                       | 4.10               | 2.3                  | +1.8                                 |
|    | "                      | 267°-10'         | 3.85   |               | +                       | 1°-40'                  | 11.2               | 5.0                  | +6.2                                 |
|    | "                      | 188°-20'         | 4.20   |               | +                       | 1°-25'                  | 10.4               | 5.0                  | +5.4                                 |
|    | "                      | 195°-40'         | 3.92   |               | +                       | 2°-05'                  | 14.2               | 5.0                  | +9.2                                 |
|    | "                      | 204°-15'         | 3.60   |               | +                       | 1°-45'                  | 11.0               | 5.0                  | +6.0                                 |

Page 47 Transit ..... Obs. .... Line Ditch 4  
 Date 10-26-44 Rec. ....

| #7                | OBJECT<br><u>H.I. 937.67</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------|------------------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|                   |                              |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|                   |                              |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
| G.E               |                              | 284°-30' | 3.92   |               | +                       | 1°-30'        | 10.2   | 5.0                | +5.2                 | 942.9                       |
| Fence line W. & E |                              | 183°-45' | 2.70   | -             |                         |               |        | 0.0                |                      | 37.7                        |
| G.E Ridge         |                              | 300°-00' | 4.44   |               | +                       | $\frac{1}{2}$ | 2.22   | 2.0                | +0.2                 | 37.9                        |
| Top Ditch         |                              | 173°-45' | 2.70   |               | +                       | $\frac{1}{2}$ | 1.35   | 3.5                | -2.2                 | 35.5                        |
| £ "               |                              | 171°-50' | 2.70   | -             |                         |               |        | 7.3                |                      | 30.4                        |
| Top "             |                              | 169°-20' | 2.72   |               |                         |               |        | 1.9                |                      | 35.8                        |
| G.E               |                              | 312°-50' | 5.20   |               |                         |               |        | 4.2                |                      | 33.5                        |
| "                 |                              | 328°-30' | 4.30   |               | -                       | $\frac{1}{2}$ | 2.15   | 11.3               | -13.4                | 24.3                        |
| "                 |                              | 314°-50' | 3.10   |               | -                       | $\frac{1}{2}$ | 1.55   | 11.0               | -12.5                | 25.2                        |
| "                 |                              | 299°-00' | 2.50   |               |                         |               |        | 11.7               |                      | 26.0                        |
| Draw              |                              | 128°-00' | 1.52   |               |                         |               |        | 2.5                |                      | 35.2                        |
| G.E               |                              | 265°-00' | 2.08   |               |                         |               |        | 9.1                |                      | 28.6                        |
| Top Ditch         |                              | 160°-45' | 1.40   |               |                         |               |        | 5.3                |                      | 32.4                        |
| Draw              |                              | 247°-30' | 2.80   |               |                         |               |        | 1.6                |                      | 36.1                        |
| £ Ditch           |                              | 163°-50' | 1.42   | -             |                         |               |        | 10.4               |                      | 27.3                        |
| Top "             |                              | 168°-20' | 1.44   |               |                         |               |        | 4.8                |                      | 32.9                        |
| Draw              |                              | 237°-00' | 3.64   |               | +                       | 1°-55'        | 12.2   | 6.0                | +7.2                 | 44.9                        |

Page 48 Transit ..... Obs. .... Line. ....  
 Date 10-26-44 Rec. ....

| #7               | OBJECT              | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------|---------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                  |                     |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                  |                     |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|                  | <u>H. 1. 937.67</u> |          |        |               |                         |             |        |                    |                      |                             |
| E & W Fence      |                     | 218°-30' | 3.50   | -             | +                       | 2°-25'      | 14.8   | 5.0                | +9.8                 | 947.5                       |
| G.E              |                     | 181°-20' | 1.69   |               |                         |             |        | 2.4                |                      | 35.3                        |
| Ridge            |                     | 293°-15' | 2.70   |               | +                       | 2°-10'      | 10.2   | 5.0                | +5.2                 | 42.9                        |
| G.E              |                     | 191°-15' | 1.97   |               |                         |             |        | 4.7                |                      | 33.0                        |
| "                |                     | 231°-00' | 1.86   |               |                         |             |        | 6.8                |                      | 30.9                        |
| Fence Line E & W |                     | 202°-50' | 2.92   | -             | +                       | 1           | 2.92   | 0.0                | +2.9                 | 40.6                        |
| G.E              |                     | 217°-15' | 2.57   |               | +                       | 1/2         | 1.28   | 1.3                | 0.0                  | 37.7                        |
| "                |                     | 256°-00' | 2.12   |               |                         |             |        | 7.4                |                      | 30.3                        |
| "                |                     | 214°-30' | 1.87   |               |                         |             |        | 5.5                |                      | 32.2                        |
| "                |                     | 263°-30' | 1.65   |               |                         |             |        | 10.0               |                      | 27.7                        |
| "                |                     | 212°-15' | 1.15   |               |                         |             |        | 4.2                |                      | 33.5                        |
| "                |                     | 273°-00' | 1.18   |               |                         |             |        | 7.2                |                      | 30.5                        |
| "                |                     | 199°-00' | 1.34   |               |                         |             |        | 5.0                |                      | 32.7                        |
| "                |                     | 250°-00' | 1.06   |               |                         |             |        | 8.4                |                      | 29.3                        |
| 4 Ditch          |                     | 181°-00' | .88    | -             |                         |             |        | 12.5               |                      | 25.2                        |
| Top "            |                     | 186°-00' | .91    |               |                         |             |        | 6.7                |                      | 31.0                        |
| " "              |                     | 178°-40' | .79    |               |                         |             |        | 6.2                |                      | 31.5                        |



Page 49 Transit ..... Obs. .... Line. Ditch 4  
 Date 10-26-44 Rec. ....

| #7 | OBJECT                 | AZIMUTH  | STADIA                | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|------------------------|----------|-----------------------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|    |                        |          |                       |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|    |                        |          |                       |               | Down-                   | or Angle    |               |                    |                      |                             |
|    | H.I. 937.67            |          |                       |               |                         |             |               |                    |                      |                             |
|    | Top Ditch              | 232°-00' | 69                    |               |                         |             |               | 8.0                |                      | 929.7                       |
|    | " "                    | 229°-10' | 50                    |               |                         |             |               | 7.1                |                      | 30.6                        |
|    | " "                    | 230°-00' | 65                    | —             |                         |             |               | 13.4               |                      | 24.3                        |
|    | G.E.                   | 161°-30' | 40                    |               |                         |             |               | 4.1                |                      | 33.6                        |
|    | " Ditch                | 294°-30' | 55                    | —             |                         |             |               | 14.2               |                      | 23.5                        |
|    | Top "                  | 292°-00' | 65                    |               |                         |             |               | 9.2                |                      | 28.5                        |
|    | " "                    | 301°-30' | 48                    |               |                         |             |               | 8.8                |                      | 28.9                        |
| #8 | H.I. = 4.59 G.E. = 0.5 | 926.57   |                       |               |                         |             |               |                    |                      | 921.96                      |
|    |                        | 926.59   |                       |               |                         |             |               |                    |                      | 921.98                      |
|    | A+Δ # 8                |          |                       |               |                         |             |               |                    |                      |                             |
|    | Δ # 7                  | 168°-22' | 7.58                  |               | +                       | 1           | 7.58          | 0.90               | +6.68                | 933.22                      |
|    | Δ # 9                  | 326°-19' | 11.71                 | —             |                         |             |               | 0.92               |                      | 925.63                      |
|    | check azi              | 354°-21' | center gable on house |               |                         |             |               |                    |                      |                             |
|    | Δ # 8A                 | 330°-54' | 10.00                 |               | —                       | 1/2         | -5.00         | 8.60               | -13.60               | 912.95                      |
|    | " Ditch                | 170°-45' | 6.60                  | —             |                         |             |               | 5.2                |                      | 21.3                        |
|    | Top "                  | 169°-50' | 6.40                  |               |                         |             |               | 1.2                |                      | 25.3                        |
|    | G.E.                   | 166°-00' | 7.12                  |               | +                       | 1/2         | 3.56          | 2.7                | +0.9                 | 27.4                        |
|    | Top Ditch              | 171°-30' | 6.50                  |               |                         |             |               | 1.1                |                      | 25.4                        |

Page 50 Transit ..... Obs. .... Line .....  
 Date 10-26-44 Rec. ....

| #                       | OBJECT           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------------|------------------|----------|--------|---------------|-------------------------|----------------|--------|--------------------|----------------------|-----------------------------|
|                         |                  |          |        |               | Up+                     | No. of Int.    | Rod    |                    |                      |                             |
|                         |                  |          |        |               | Down-                   | or Angle       | Equiv. |                    |                      |                             |
| #8                      |                  |          |        |               |                         |                |        |                    |                      |                             |
|                         | <u>7.1926.55</u> |          |        |               |                         |                |        |                    |                      |                             |
| G.E                     |                  | 159°-45' | 6.72   |               |                         |                |        | 0.0                |                      | 926.5                       |
| "                       |                  | 176°-10' | 6.28   |               |                         |                |        | 1.5                |                      | 25.0                        |
| "                       |                  | 153°-20' | 7.15   |               | +                       | $\frac{1}{2}$  | 3.57   | 0.0                | +3.6                 | 30.1                        |
| "                       |                  | 174°-50' | 5.20   |               |                         |                |        | 4.3                |                      | 22.2                        |
| " Top Knoll             |                  | 147°-45' | 6.90   |               | +                       | $\frac{1}{2}$  | 3.45   | 0.9                | +2.5                 | 29.0                        |
| E & W Fence             |                  | 174°-00' | 3.71   |               |                         |                |        | 5.8                |                      | 20.7                        |
| Draw                    |                  | 139°-40' | 6.38   |               |                         |                |        | 5.9                |                      | 20.6                        |
| Top Ditch               |                  | 170°-00' | 5.33   |               |                         |                |        | 3.9                |                      | 22.6                        |
| ⊥ "                     |                  | 169°-15' | 5.30   |               |                         |                |        | 7.5                |                      | 19.0                        |
| Top "                   |                  | 168°-45' | 5.31   |               |                         |                |        | 4.4                |                      | 22.1                        |
| G.E                     |                  | 129°-00' | 5.76   |               |                         |                |        | 1.6                |                      | 24.9                        |
| Draw                    |                  | 136°-00' | 7.60   |               |                         |                |        | 2.5                |                      | 24.0                        |
| Top Ditch E & W F. Line |                  | 164°-15' | 3.87   |               |                         |                |        | 6.7                |                      | 19.8                        |
| ⊥ "                     |                  | 165°-00' | 3.87   |               |                         |                |        | 8.3                |                      | 18.2                        |
| Top "                   |                  | 165°-45' | 3.75   |               |                         |                |        | 6.7                |                      | 19.8                        |
| G.E                     |                  | 135°-40' | 8.40   |               |                         |                |        | 0.0                |                      | 26.5                        |
| Top Hill                |                  | 117°-45' | 5.50   |               | +                       | $1\frac{1}{2}$ | 8.25   | 2.7                | +5.5                 | 32.0                        |

Page 51 Transit ..... Obs. .... Line Ditch 4  
 Date 10-26-44 Rec. ....

| #8<br>OBJECT<br><u>H.1-926.55</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                   |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| <del>G.E</del> Draw               | 105°-40' | 4.50   |               |                         |                               |               | 2.3                |                      | 24.2                        |
| G.E                               | 202°-40' | 3.65   |               | +                       | $\frac{1}{2}$                 | 1.82          | 0.0                | +1.8                 | 28.3                        |
| E Draw                            | 100°-40' | 5.08   |               | +                       | $\frac{1}{2}$                 | 2.54          | 4.3                | -1.8                 | 24.7                        |
| " "                               | 213°-20' | 4.32   |               | +                       | $1\frac{1}{2}$                | 6.48          | 0.9                | +5.6                 | 32.1                        |
| Top Hill                          | 95°-20'  | 4.07   |               | +                       | 1°-28'                        | 10.4          | 5.0                | +5.4                 | 31.9                        |
| " "                               | 227°-15' | 5.20   |               | +                       | 2°-47'                        | 25.2          | 5.0                | +20.2                | 46.7                        |
| Draw                              | 233°-10' | 4.68   |               | +                       | 2°-35'                        | 21.1          | 5.0                | +16.1                | 42.6                        |
| Top Hill                          | 89°-40'  | 3.65   |               | +                       | 1°-12"                        | 7.6           | 5.0                | +2.6                 | 29.1                        |
| E Farm Rd.                        | 81°-40'  | 3.65   |               |                         |                               |               | 4.0                |                      | 22.5                        |
| Top Knoll                         | 243°-10' | 4.10   |               | +                       | 3°-25"                        | 24.4          | 5.0                | +19.4                | 45.9                        |
| G.E                               | 254°-20' | 3.66   | ✓             | +                       | 2°-35'                        | 16.5          | 5.0                | +11.5                | 38.0                        |
| E Farm Rd.                        | 85°-30'  | 4.40   |               | +                       | $\frac{1}{2}$                 | 2.20          | 1.3                | +0.9                 | 27.4                        |
| Draw                              | 261°-00  | 3.71   |               | +                       | $1\frac{1}{2}$                | 5.6           | 0.2                | +5.4                 | 31.9                        |
| E "                               | 255°-10' | 4.31   |               | +                       | 2°-10'                        | 16.3          | 5.0                | +11.3                | 37.8                        |
| G.E                               | 89°-40'  | 3.26   |               |                         |                               |               | 3.2                |                      | 23.3                        |
| Fence cor S+W.                    | 78°-50'  | 2.91   | ✓             |                         |                               |               | 6.0                |                      | 20.5                        |
| Top Hill                          | 262°-30' | 4.70   |               | +                       | 2°-50'                        | 23.2          | 5.0                | +18.2                | 44.7                        |



Page 52 Transit.....Obs.....Line.....  
 Date 10-16-44 Rec.....

| #                   | OBJECT     | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------|------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                     |            |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| #8                  | H. 1926.55 |          |        |               |                         |                         |               |                    |                      |                             |
| G.E.                |            | 261°-30' | 3.00   | -             | +                       | 1                       | 3.00          | 1.9                | +1.1                 | 927.6                       |
| "                   |            | 101°-00' | 3.60   | -             |                         |                         |               | 3.9                |                      | 22.6                        |
| Top Knoll           |            | 260°-40' | 1.86   | -             | +                       | 1                       | 1.86          | 0.4                | +1.5                 | 28.0                        |
| G.E.                |            | 110°-30' | 3.65   |               |                         |                         |               | 7.0                |                      | 19.5                        |
| "                   |            | 114°-10' | 4.60   |               |                         |                         |               | 3.6                |                      | 22.9                        |
| Draw                |            | 254°-50' | 2.34   |               | +                       | 1/2                     | 1.17          | 0.4                | +0.8                 | 27.3                        |
| G.E.                |            | 120°-00' | 4.30   |               |                         |                         |               | 7.5                |                      | 19.0                        |
| Toe Draw            |            | 233°-30' | 2.08   | -             |                         |                         |               | 6.0                |                      | 20.5                        |
| G.E.                |            | 123°-50' | 5.02   |               |                         |                         |               | 2.9                |                      | 23.6                        |
| "                   |            | 234°-00' | 2.75   | -             |                         |                         |               | 1.5                |                      | 25.0                        |
| "                   |            | 129°-10' | 4.78   |               |                         |                         |               | 7.0                |                      | 19.5                        |
| "                   |            | 228°-10' | 2.90   | -             |                         |                         |               | 2.8                |                      | 23.7                        |
| Fence Cor N.S. & W. |            | 137°-30' | 5.03   | -             |                         |                         |               | 8.8                |                      | 17.7                        |
| G.E.                |            | 222°-30' | 3.67   | -             | +                       | 1/2                     | 1.8           | 0.7                | +1.1                 | 27.6                        |
| Draw                |            | 228°-00' | 4.15   | -             | +                       | 2                       | 8.3           | 1.7                | +6.6                 | 33.1                        |
| G.E.                |            | 147°-30' | 5.54   |               |                         |                         |               | 7.9                |                      | 18.6                        |
| "                   |            | 212°-15' | 3.30   | -             |                         |                         |               | 3.1                |                      | 23.4                        |

Page 53 Transit.....Obs.....Line Ditch 4  
 Date 10-26-44 Rec.....

| #8 | OBJECT      | AZIMUTH           | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------|-------------------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|    |             |                   |        |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|    |             |                   |        |               | Down-                   | or Angle    |               |                    |                      |                             |
|    |             | <u>H.I 926.55</u> |        |               |                         |             |               |                    |                      |                             |
|    | G.E         | 148°-45'          | 6.11   | ✓             |                         |             |               | 4.5                |                      | 922.0                       |
|    | "           | 222°-00'          | 2.37   | —             |                         |             |               | 6.3                |                      | 20.2                        |
|    | "           | 153°-45'          | 6.60   | —             |                         |             |               | 1.1                |                      | 25.4                        |
|    | "           | 224°-00'          | 1.38   | ✓             |                         |             |               | 8.4                |                      | 18.1                        |
|    | "           | 159°-00'          | 6.20   | —             |                         |             |               | 3.9                |                      | 22.6                        |
|    | "           | 211°-40'          | 1.98   | ✓             |                         |             |               | 8.6                |                      | 17.9                        |
|    | "           | 156°-10'          | 5.25   | —             |                         |             |               | 6.4                |                      | 20.1                        |
|    | "           | 203°-30'          | 2.60   | ✓             |                         |             |               | 7.5                |                      | 19.0                        |
|    | "           | 155°-00'          | 4.55   | —             |                         |             |               | 8.3                |                      | 18.2                        |
|    | "           | 187°-40'          | 2.95   | —             |                         |             |               | 7.5                |                      | 19.0                        |
|    | E & W Fence | 176°-00'          | 3.70   | ✓             |                         |             |               | 5.7                |                      | 20.8                        |
|    | G.E         | 142°-30'          | 4.32   |               |                         |             |               | 9.5                |                      | 17.0                        |
|    | "           | 175°-20'          | 2.85   |               |                         |             |               | 8.7                |                      | 17.8                        |
|    | "           | 134°-00'          | 3.88   |               |                         |             |               | 10.1               |                      | 16.4                        |
|    | "           | 175°-10'          | 1.74   |               |                         |             |               | 8.6                |                      | 17.9                        |
|    | "           | 144°-30'          | 3.73   |               |                         |             |               | 8.9                |                      | 17.6                        |
|    | "           | 177°-30'          | 0.72   |               |                         |             |               | 9.1                |                      | 17.4                        |

Page 54 Transit.....Obs.....Line.....  
 Date 10-26-44 Rec.....

| #                  | OBJECT       | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|--------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                    |              |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                    |              |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
| #8                 |              |          |        |               |                         |             |        |                    |                      |                             |
|                    | H.I = 926.55 |          |        |               |                         |             |        |                    |                      |                             |
| £ Ditch            |              | 151°-10' | 2.80   | -             |                         |             |        | 9.3                |                      | 917.2                       |
| Top "              |              | 151°-50' | 2.75   | ✓             |                         |             |        | 8.2                |                      | 18.3                        |
| " "                |              | 150°-30' | 2.85   | -             |                         |             |        | 8.1                |                      | 18.4                        |
| £ Farm Rd          |              | 20°-00'  | 45     | -             |                         |             |        | 3.4                |                      | 23.1                        |
| G.E                |              | 138°-20' | 3.00   | -             |                         |             |        | 9.7                |                      | 16.8                        |
| £ Farm Rd.         |              | 55°-00'  | 1.06   | -             |                         |             |        | 2.9                |                      | 23.6                        |
| G.E                |              | 119°-00' | 2.93   | ✓             |                         |             |        | 10.1               |                      | 16.4                        |
| Fence cor N & W    |              | 58°-20'  | 1.64   | -             |                         |             |        | 5.1                |                      | 21.4                        |
| End Fence going E. |              | 65°-10'  | 1.58   | ✓             |                         |             |        | 6.2                |                      | 20.3                        |
| G.E                |              | 100°-30' | 2.50   | ✓             |                         |             |        | 9.3                |                      | 17.2                        |
| "                  |              | 81°-30'  | 1.20   | ✓             |                         |             |        | 8.0                |                      | 18.5                        |
| "                  |              | 92°-00'  | 2.86   | -             |                         |             |        | 7.1                |                      | 19.4                        |
| "                  |              | 111°-30' | 1.17   |               |                         |             |        | 9.5                |                      | 17.0                        |
| "                  |              | 143°-10' | 1.66   |               |                         |             |        | 10.3               |                      | 16.2                        |
| "                  |              | 161°-30' | 2.60   |               |                         |             |        | 9.2                |                      | 17.3                        |
| £ Ditch            |              | 124°-10' | 2.00   | ✓             |                         |             |        | 10.9               |                      | 15.6                        |
| Top "              |              | 124°-40' | 1.94   |               |                         |             |        | 9.6                |                      | 16.9                        |



Page 55 Transit ..... Obs. .... Line Ditch 4  
 Date 10-26-44 ..... Rec. ....

| #8 | OBJECT                  | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|    |                         |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|    |                         |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|    | <u>H.I. 926.55</u>      |          |        |               |                         |             |        |                    |                      |                             |
|    | Top Ditch               | 123°-40' | 2.03   |               |                         |             |        | 9.6                |                      | 916.9                       |
|    | ☒ "                     | 95°-00'  | 1.80   | —             |                         |             |        | 11.7               |                      | 14.8                        |
|    | Top "                   | 95°-40'  | 1.85   |               |                         |             |        | 9.7                |                      | 16.8                        |
|    | " "                     | 95°-00'  | 1.74   |               |                         |             |        | 9.7                |                      | 16.8                        |
|    | FlowLine 36" C.M. culv. | 70°-30'  | 1.91   | —             |                         |             |        | 11.87              |                      | 14.68                       |
|    | Top Ditch               | 71°-30'  | 2.00   |               |                         |             |        | 7.5                |                      | 19.0                        |
|    | " "                     | 70°-10'  | 1.85   |               |                         |             |        | 8.0                |                      | 18.5                        |
|    | FlowLine 36" C.M. culv. | 64°-15'  | 2.00   | —             |                         |             |        | 11.80              |                      | 14.75                       |
|    | ☒ Farm Rd.              | 62°-40'  | 1.60   | —             |                         |             |        | 5.9                |                      | 20.6                        |
|    | Top Ditch               | 64°-45'  | 2.09   |               |                         |             |        | 7.3                |                      | 19.2                        |
|    | " "                     | 62°-30'  | 1.92   |               |                         |             |        | 7.0                |                      | 19.5                        |
|    | ☒ Farm Rd.              | 72°-40'  | 2.41   | —             |                         |             |        | 6.9                |                      | 19.6                        |
|    | Angle Ditch             | 52°-40'  | 2.26   | —             |                         |             |        | 12.1               |                      | 14.4                        |
|    | Top Ditch               | 52°-00'  | 2.30   |               |                         |             |        | 8.7                |                      | 17.8                        |
|    | " "                     | 52°-20'  | 2.15   |               |                         |             |        | 7.7                |                      | 18.8                        |
|    | Ridge                   | 74°-00'  | 4.47   |               | +                       | 1°-35'      | 12.3   | 5.0                | +7.3                 | 33.8                        |
|    | Angle Ditch             | 26°-30'  | 2.01   | —             | -                       | 1/2         | 1.0    | 11.3               | -12.3                | 14.2                        |

Page 56 Transit.....Obs.....Line.....Date 10-26-44 Rec.....

| #8 | OBJECT            | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|-------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                   |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H. 1926.55</u> |          |        |               |                         |                         |               |                    |                      |                             |
|    | Top Ditch         | 26°-00'  | 2.09   |               |                         |                         |               | 9.0                |                      | 917.5                       |
|    | " "               | 27°-30'  | 1.93   |               |                         |                         |               | 9.0                |                      | 17.5                        |
|    | Ridge             | 60°-30'  | 4.40   |               | +                       | 1°-40'                  | 12.8          | 5.0                | +7.8                 | 34.3                        |
|    | E Ditch           | 8°-45'   | 1.43   | -             | -                       | $\frac{1}{2}$           | 0.71          | 12.1               | -12.8                | 13.7                        |
|    | Top "             | 7°-20'   | 1.51   |               |                         |                         |               | 9.3                |                      | 17.2                        |
|    | " "               | 10°-00'  | 1.34   |               |                         |                         |               | 9.1                |                      | 17.4                        |
|    | Ridge             | 46°-10'  | 4.90   |               | +                       | 1°-30'                  | 12.8          | 5.0                | +7.8                 | 34.3                        |
|    | E-W Fence         | 49°-10'  | 1.09   | -             |                         |                         |               | 1.7                |                      | 24.8                        |
|    | Ridge             | 36°-50'  | 5.65   |               | +                       | 1°-10'                  | 11.5          | 5.0                | +6.5                 | 33.0                        |
|    | G.E               | 34°-30'  | 1.29   |               |                         |                         |               | 6.7                |                      | 19.8                        |
|    | Ridge             | 26°-00'  | 6.30   |               | +                       | 1°-10'                  | 12.8          | 5.0                | +7.8                 | 34.3                        |
|    | "                 | 21°-50'  | 6.85   |               | +                       | 1°-03'                  | 12.5          | 5.0                | +7.5                 | 34.0                        |
|    | G.E               | 349°-00' | 1.80   |               |                         |                         |               | 6.9                |                      | 19.6                        |
|    | Ridge             | 10°-30'  | 7.30   |               | +                       | 1°-03'                  | 13.4          | 5.0                | +8.4                 | 34.9                        |
|    | Top Knoll         | 349°-15' | 2.44   |               | +                       | $\frac{1}{2}$           | 1.2           | 0.0                | +1.2                 | 27.7                        |
|    | N+ S Fence        | 359°-00' | 7.60   | -             |                         |                         |               | 3.4                |                      | 23.1                        |
|    | Ridge             | 358°-20' | 3.12   |               |                         |                         |               | 2.9                |                      | 23.6                        |

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 Date.....Rec.....

| #8 | OBJECT             | AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|--------------------|---------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                    |         |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H.I. 926.55</u> |         |        |               |                         |                         |               |                    |                      |                             |
|    | Ridge.             | 5°-00'  | 3.60   |               | +                       | $\frac{1}{2}$           | 1.8           | 0.8                | +1.0                 | 927.5                       |
|    | N & S Fence        | 2°-10'  | 5.84   |               |                         |                         |               | 0.9                |                      | 25.6                        |
|    | G.E                | 11°-15' | 4.46   |               |                         |                         |               | 2.3                |                      | 24.2                        |
|    | "                  | 15°-30' | 5.10   |               | +                       | $\frac{1}{2}$           | 2.5           | 1.8                | +0.7                 | 27.2                        |
|    | "                  | 16°-10' | 3.75   |               |                         |                         |               | 3.7                |                      | 22.8                        |
|    | "                  | 19°-20' | 3.12   |               |                         |                         |               | 7.3                |                      | 19.2                        |
|    | "                  | 26°-40' | 4.25   |               |                         |                         |               | 0.9                |                      | 25.6                        |
|    | "                  | 10°-00' | 3.10   |               |                         |                         |               | 5.7                |                      | 20.8                        |
|    | "                  | 9°-15'  | 2.30   |               |                         |                         |               | 7.9                |                      | 18.6                        |
|    | "                  | 31°-10' | 4.60   |               | +                       | $\frac{1}{2}$           | 2.30          | 1.7                | +0.6                 | 27.1                        |
|    | "                  | 19°-10' | 2.36   |               |                         |                         |               | 9.2                |                      | 17.3                        |
|    | "                  | 35°-10' | 3.95   |               |                         |                         |               | 2.3                |                      | 24.2                        |
|    | "                  | 31°-46' | 3.30   |               |                         |                         |               | 6.6                |                      | 19.9                        |
|    | "                  | 55°-00' | 3.25   |               |                         |                         |               | 4.9                |                      | 21.6                        |
|    | "                  | 42°-15' | 3.10   |               |                         |                         |               | 5.9                |                      | 20.6                        |
|    | "                  | 55°-45' | 2.72   |               |                         |                         |               | 7.9                |                      | 18.6                        |
|    | "                  | 66°-30' | 2.51   |               |                         |                         |               | 7.5                |                      | 19.0                        |



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 Date 10-27-44 Rec. ....

| #8             | OBJECT   | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------------|----------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                |          |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
|                | 71926.55 |          |        |               |                         |                         |                    |                      |                             |
| G.E            |          | 64°-40'  | 3.40   |               |                         |                         | 4.2                |                      | 922.3                       |
| Φ Farm Rd.     |          | 283°-40' | 1.10   | —             |                         |                         | 0.5                |                      | 26.0                        |
| G.E            |          | 270°-30' | 4.28   |               | +                       | 2°-35'                  | 19.3               | 5.0                  | +14.3 40.8                  |
| Φ Farm Rd. G.E |          | 233°-30' | 4.11   | —             | +                       | 2°-20'                  | 16.7               | 5.0                  | +11.7 38.2                  |
| G.E            |          | 276°-40' | 3.90   |               | +                       | 2°-35'                  | 17.6               | 5.0                  | +12.6 39.1                  |
| Φ Farm Rd.     |          | 310°-30' | 52     | —             |                         |                         | 3.0                |                      | 23.5                        |
| G.E            |          | 286°-30' | 4.08   |               | +                       | 2°-20'                  | 16.6               | 5.0                  | +11.6 38.1                  |
| "              |          | 274°-20' | 98     |               |                         |                         | 0.7                |                      | 25.8                        |
| " Hill         |          | 291°-30' | 4.70   |               | +                       | 3°-10'                  | 25.9               | 5.0                  | +20.9 47.4                  |
| Φ Farm Rd.     |          | 274°-00' | 2.30   | —             |                         |                         | 0.3                |                      | 26.2                        |
| Φ Draw         |          | 300°-30' | 4.88   |               | +                       | 1°-20'                  | 11.3               | 5.0                  | +6.3 32.8                   |
| " "            |          | 297°-10' | 5.35   |               | +                       | 1°-35'                  | 14.7               | 5.0                  | +9.7 36.2                   |
| G.E            |          | 267°-30' | 3.00   |               | +                       | 2                       | 6.00               | 5.1                  | +0.9 27.4                   |
| Hill           |          | 304°-50' | 5.15   |               | +                       | 2°-00'                  | 17.6               | 5.0                  | +12.6 39.1                  |
| Φ Farm Rd.     |          | 273°-20' | 3.05   | —             | +                       | 1/2                     | 1.5                | 0.0                  | +1.5 28.0                   |
| Hill           |          | 309°-15' | 5.70   |               | +                       | 1°-22'                  | 13.6               | 5.0                  | +8.6 35.1                   |

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 Date 10-27-44 Rec. ....

| #8<br>OBJECT<br>H.I. 926.55 | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| Top Hill                    | 305°-50' | 7.30   |               | +                       | 2°-00'                  | 25.5          | 5.0                | +20.5                | 947.0                       |
| Hill                        | 302°-00' | 6.76   |               | +                       | 1°-50'                  | 21.4          | 5.0                | +16.4                | 42.9                        |
| Top "                       | 299°-00' | 5.93   |               | +                       | 2°-20'                  | 24.2          | 5.0                | +19.2                | 45.7                        |
| £ Draw                      | 290°-30' | 3.17   |               |                         |                         |               | 4.6                |                      | 21.9.                       |
| Hill                        | 311°-16' | 6.30   |               | +                       | 1°-25'                  | 15.6          | 5.0                | +10.6                | 37.1.                       |
| G.E                         | 287°-30' | 2.78   |               | +                       | $\frac{1}{2}$           | 1.39          | 0.8                | +0.6                 | 27.1.                       |
| Top Hill                    | 311°-00' | 7.10   |               | +                       | 1°-20'                  | 16.5          | 5.0                | +11.5                | 38.0                        |
| G.E                         | 302°-30' | 2.60   |               |                         |                         |               | 10.1               |                      | 16.4                        |
| £ Draw                      | 302°-40' | 2.84   |               |                         |                         |               | 11.0               |                      | 15.5                        |
| G.E                         | 318°-00' | 2.67   |               |                         |                         |               | 12.4               |                      | 14.1                        |
| "                           | 310°-00' | 2.43   |               |                         |                         |               | 10.3               |                      | 16.2                        |
| "                           | 298°-00' | 2.20   |               |                         |                         |               | 6.7                |                      | 19.8                        |
| Eggs Fence                  | 280°-00' | 1.90   |               |                         |                         |               | 1.8                |                      | 24.7.                       |
| G.E                         | 290°-00' | 1.16   |               |                         |                         |               | 0.0                |                      | 26.5                        |
| "                           | 311°-00' | 1.33   |               |                         |                         |               | 7.3                |                      | 19.2.                       |
| Top Ditch                   | 334°-10' | 1.24   |               |                         |                         |               | 11.9               |                      | 14.6                        |
| G.E                         | 328°-15' | .91    |               |                         |                         |               | 8.6                |                      | 17.9.                       |

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 Date 10-27-44 Rec. ....

| #8        | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------|--------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|           |                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|           |                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|           | <u>H.I. 926.55</u> |          |        |               |                         |               |        |                    |                      |                             |
| G.E       |                    | 358°-30' | 83     |               |                         |               |        | 8.8                |                      | 917.7                       |
| Top Ditch |                    | 326°-15' | 170    |               |                         |               |        | 8.6                |                      | 17.9                        |
| "         |                    | 341°-00' | 132    |               |                         |               |        | 11.8               |                      | 14.7                        |
| G.E       |                    | 338°-40' | 193    |               |                         |               |        | 8.0                |                      | 18.5                        |
| Ridge     |                    | 320°-00' | 5.84   |               | +                       | $\frac{1}{2}$ | 2.92   | 2.8                | +0.6                 | 27.1                        |
| G.E       |                    | 336°-00' | 2.51   |               |                         |               |        | 9.5                |                      | 17.0                        |
| "         |                    | 326°-40' | 5.65   |               |                         |               |        | 12.3               |                      | 14.2                        |
| "         |                    | 317°-50' | 5.10   |               |                         |               |        | 2.2                |                      | 24.3                        |
| Top Ditch |                    | 334°-15' | 174    |               |                         |               |        | 8.8                |                      | 17.7                        |
| G.F       |                    | 312°-45' | 470    |               |                         |               |        | 2.7                |                      | 23.8                        |
| "         |                    | 319°-00' | 4.10   |               | -                       | $\frac{1}{2}$ | 2.05   | 11.0               | -13.0                | 13.5                        |
| Draw      |                    | 307°-50' | 440    |               |                         |               |        | 3.0                |                      | 23.5                        |
| G.E       |                    | 310°-15' | 350    |               |                         |               |        | 10.1               |                      | 16.4                        |
| "         |                    | 300°-30' | 410    |               | +                       | 1°-25'        | 10.1   | 5.0                | +5.1                 | 31.6                        |
| ☞ Ditch   |                    | 340°-15' | 126    |               |                         |               |        | 13.1               |                      | 13.4                        |
| " "       |                    | 329°-00' | 163    |               |                         |               |        | 13.9               |                      | 12.6                        |
| ☞ Farm Rd |                    | 341°-30' | 38     |               |                         |               |        | 3.3                |                      | 23.2                        |



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 Date 10-27-44 Rec.

| #   | OBJECT                            | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-----------------------------------|------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                                   |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| 8-A | H.I. = 4.58<br>A + Δ #8 A<br>Δ #8 | 917.53<br>917.30 | 917.41 |               |                         |                         |               |                    |                      | 912.95<br>921.96            |
|     |                                   | 150°-54'         | 1000   |               | +                       | 1                       | +10.00        | 5.34               | +4.66                |                             |
|     | Φ Ditch                           | 152°-40'         | 7.30   | -             |                         |                         |               | 6.7                |                      | 10.7                        |
|     | Top "                             | 153°-10'         | 7.30   |               |                         |                         |               | 4.7                |                      | 12.7                        |
|     | " "                               | 152°-00'         | 7.30   |               |                         |                         |               | 3.1                |                      | 14.3                        |
|     | Φ "                               | 151°-40'         | 6.22   | -             |                         |                         |               | 7.3                |                      | 10.1                        |
|     | Top "                             | 151°-20'         | 6.28   |               |                         |                         |               | 5.6                |                      | 11.8                        |
|     | " "                               | 152°-10'         | 6.26   |               |                         |                         |               | 5.6                |                      | 11.8                        |
|     | G.E.                              | 147°-00'         | 7.30   |               | +                       | 1/2                     | 3.65          | 2.7                | +0.9                 | 18.3                        |
|     | "                                 | 143°-10'         | 6.50   |               |                         |                         |               | 6.1                |                      | 11.3                        |
|     | "                                 | 140°-00'         | 7.00   |               | +                       | 1/2                     | 3.50          | 2.7                | +0.8                 | 18.2                        |
|     | "                                 | 137°-50'         | 6.50   |               |                         |                         |               | 5.7                |                      | 11.7                        |
|     | "                                 | 135°-10'         | 6.70   |               |                         |                         |               | 0.2                |                      | 17.2                        |
|     | "                                 | 132°-50'         | 6.00   |               |                         |                         |               | 5.5                |                      | 11.9                        |
|     | "                                 | 126°-30'         | 5.95   |               |                         |                         |               | 0.8                |                      | 16.6                        |

Page 62 Transit ..... Obs. .... Line .....  
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| #               | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------|--------|----------|--------|---------------|-------------------------|----------------|--------|--------------------|----------------------|-----------------------------|
|                 |        |          |        |               | Up+                     | No. of Int.    | Rod    |                    |                      |                             |
|                 |        |          |        |               | Down-                   | or Angle       | Equiv. |                    |                      |                             |
| #8-A            | 917.41 |          |        |               |                         |                |        |                    |                      |                             |
| G.E             |        | 129°-00' | 5.60   |               |                         |                |        | 5.9                |                      | 911.5                       |
| "               |        | 117°-30' | 5.16   |               | +                       | $\frac{1}{2}$  | 2.58   | 0.0                | +2.6                 | 20.0                        |
| "               |        | 121°-50' | 4.70   |               |                         |                |        | 6.1                |                      | 11.3                        |
| N+S Fence       |        | 102°-30' | 4.82   | -             | +                       | $1\frac{1}{2}$ | 7.2    | 1.9                | +5.3                 | 22.7                        |
| G.E             |        | 103°-30' | 4.10   |               |                         |                |        | 4.9                |                      | 12.5                        |
| Ridge           |        | 98°-20'  | 5.60   |               | +                       | 1°-45'         | 17.1   | 5.0                | +12.1                | 29.5                        |
| Fence cor. W+S. |        | 80°-10'  | 4.40   | -             | +                       | 1°-43'         | 13.2   | 5.0                | +8.2                 | 25.6                        |
| " Line E+W      |        | 76°-40'  | 3.26   | -             |                         |                |        | 6.0                |                      | 11.4                        |
| Ridge           |        | 76°-00'  | 5.16   |               | +                       | 1°-53'         | 17.0   | 5.0                | +12.0                | 29.4                        |
| G.E             |        | 93°-40'  | 3.70   |               |                         |                |        | 5.9                |                      | 11.5                        |
| "               |        | 66°-30'  | 3.66   |               |                         |                |        | 5.6                |                      | 11.8                        |
| Toe R.R.        |        | 58°-00'  | 3.72   |               |                         |                |        | 5.0                |                      | 12.4                        |
| E+W Fence       |        | 73°-50'  | 2.62   | -             |                         |                |        | 8.5                |                      | 08.9                        |
| Toe R.R.        |        | 52°-20'  | 3.30   |               |                         |                |        | 6.9                |                      | 10.5                        |
| E+W Fence       |        | 60°-30'  | 1.50   | -             |                         |                |        | 8.4                |                      | 09.0                        |
| Toe R.R.        |        | 42°-45'  | 2.78   |               |                         |                |        | 7.4                |                      | 10.0                        |
| Top Ditch       |        | 45°-40'  | 1.05   |               |                         |                |        | 8.0                |                      | 09.4                        |

Page 63 Transit ..... Obs. .... Line Ditch 4  
 Date 10-27-44 Rec. ....

| #8-A | OBJECT <u>917.41</u>      | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |             |            | READ. ON ROD | DIFF. OF ELEV. | ELEVATION ABOVE DATUM |
|------|---------------------------|----------|--------|----------|-------------------------|-------------|------------|--------------|----------------|-----------------------|
|      |                           |          |        |          | Up+                     | No. of Int. | Rod Equiv. |              |                |                       |
|      | £ Ditch.                  | 43°-30'  | 1.00   | —        |                         |             |            | 8.6          |                | 908.8                 |
|      | Toe R.R.                  | 30°-30'  | 2.40   |          |                         |             |            | 7.8          |                | 09.6                  |
|      | Top Ditch                 | 42°-00'  | 98     | -        |                         |             |            | 8.0          |                | 09.4                  |
|      | £ "                       | 105°-30' | 1.10   | —        |                         |             |            | 8.9          |                | 08.5                  |
|      | Top "                     | 106°-40' | 1.06   |          |                         |             |            | 8.2          |                | 09.2                  |
|      | " "                       | 104°-45' | 1.12   |          |                         |             |            | 8.1          |                | 09.3                  |
|      | Flow Line 42" conc. culv. | 4°-50'   | 2.16   | —        |                         |             |            | 8.42         |                | 908.99                |
|      | G.E.                      | 159°-15' | 0.60   |          |                         |             |            | 5.1          |                | 12.3                  |
|      | "                         | 142°-20' | 0.67   |          |                         |             |            | 7.9          |                | 09.5                  |
|      | "                         | 102°-15' | 1.72   |          |                         |             |            | 8.1          |                | 09.3                  |
|      | "                         | 92°-15'  | 2.50   |          |                         |             |            | 8.4          |                | 09.0                  |
|      | Top Ditch                 | 7°-00'   | 2.15   |          |                         |             |            | 3.7          |                | 13.7                  |
|      | " "                       | 2°-20'   | 2.14   |          |                         |             |            | 4.1          |                | 13.3                  |
|      | G.E.                      | 96°-40'  | 3.60   |          |                         |             |            | 7.4          |                | 10.0                  |
|      | "                         | 116°-10' | 4.30   |          |                         |             |            | 7.6          |                | 09.8                  |
|      | "                         | 4°-20'   | 1.53   |          |                         |             |            | 6.3          |                | 11.1                  |
|      | "                         | 123°-20' | 3.75   |          |                         |             |            | 8.5          |                | 08.9                  |



Page 64 Transit ..... Obs. .... Line .....  
 Date 10-27-44 Rec. ....

| #                 | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------|--------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                   |        |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                   |        |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
| #8-A              | 917.41 |          |        |               |                         |             |        |                    |                      |                             |
| Top Ditch         |        | 143°-20' | 3.30   |               |                         |             |        | 7.3                |                      | 910.1                       |
| " "               |        | 144°-40' | 3.24   |               |                         |             |        | 7.3                |                      | 10.1                        |
| " "               |        | 143°-30' | 3.27   |               |                         |             |        | 7.8                |                      | 09.6                        |
| G.E. & F.W. Fence |        | 335°-45' | .80    | —             |                         |             |        | 5.4                |                      | 12.0                        |
| " "               |        | 355°-45' | .72    |               |                         |             |        | 7.1                |                      | 10.3                        |
| G.E.              |        | 150°-00' | 3.14   |               |                         |             |        | 7.0                |                      | 10.4                        |
| E. Draw           |        | 182°-40' | .99    |               |                         |             |        | 3.4                |                      | 14.0                        |
| G.E.              |        | 155°-15' | 3.11   |               |                         |             |        | 5.3                |                      | 12.1                        |
| Draw              |        | 201°-00' | 1.50   |               |                         |             |        | 0.4                |                      | 17.0                        |
| G.E.              |        | 155°-30' | 4.70   |               |                         |             |        | 4.3                |                      | 13.1                        |
| Ridge             |        | 174°-40' | 1.80   |               | +                       | 1.          | 1.80   | 0.7                | +1.1                 | 18.5                        |
| G.E.              |        | 152°-20' | 4.75   |               |                         |             |        | 6.9                |                      | 10.5                        |
| "                 |        | 165°-20' | 2.60   |               |                         |             |        | 3.5                |                      | 13.9                        |
| Top Ditch         |        | 149°-45' | 4.80   |               |                         |             |        | 6.6                |                      | 10.8                        |
| " "               |        | 149°-10' | 4.80   | —             |                         |             |        | 7.3                |                      | 10.1                        |
| Top "             |        | 148°-45' | 4.80   |               |                         |             |        | 6.5                |                      | 10.9                        |
| G.E.              |        | 164°-30' | 3.70   |               |                         |             |        | 0.0                |                      | 17.4                        |

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| #8-A | OBJECT<br><u>H.I. 917.41</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|------------------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|      |                              |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|      |                              |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|      | G.E                          | 158°-20' | 4.30   |               |                         |             |        | 0.3                |                      | 917.1                       |
|      | "                            | 141°-30' | 5.47   |               |                         |             |        | 7.9                |                      | 09.5                        |
|      | Draw                         | 177°-10' | 3.25   |               | +                       | 1°-20'      | 7.5    | 5.0                | +2.5                 | 19.9                        |
|      | G.E                          | 137°-00' | 6.15   |               |                         |             |        | 7.5                |                      | 09.9                        |
|      | "                            | 142°-00' | 6.26   |               |                         |             |        | 7.8                |                      | 09.6                        |
|      | "                            | 147°-40' | 6.20   |               |                         |             |        | 7.2                |                      | 10.2                        |
|      | "                            | 152°-30' | 6.08   |               |                         |             |        | 6.0                |                      | 11.4                        |
|      | "                            | 155°-10' | 6.00   |               |                         |             |        | 6.3                |                      | 11.1                        |
|      | "                            | 155°-50' | 6.70   |               |                         |             |        | 4.7                |                      | 12.7                        |
|      | "                            | 305°-15' | 1.14   |               |                         |             |        | 2.6                |                      | 14.8                        |
|      | "                            | 330°-30' | 1.60   |               | +                       | 1/2         | 0.8    | 2.3                | -1.5                 | 15.9                        |
|      | "                            | 345°-00' | 1.44   |               |                         |             |        | 2.1                |                      | 15.3                        |
|      | "                            | 163°-00' | 78     |               |                         |             |        | 6.0                |                      | 11.4                        |

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#9

| #9 | OBJECT                                 | AZIMUTH          | STADIA                 | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|----------------------------------------|------------------|------------------------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|    |                                        |                  |                        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|    | H.I. = 4.45                            | 930.08<br>930.01 | 930.04                 |               |                         |                         |                    |                      | 925.59<br><del>925.62</del> |
|    | A+ Δ #9                                |                  |                        |               |                         |                         |                    |                      |                             |
|    | Δ #8                                   | 146°-19'         | 11.71                  |               |                         |                         | 8.05               |                      | 921.96                      |
|    | Δ #10                                  | 30°-32'          | 11.03                  |               | - 1/2                   | -5.51                   | 9.69               | -15.20               | 914.84                      |
|    | Check Azi.                             | 17°-45'          | Nazareth Hall steeple. |               |                         |                         |                    |                      |                             |
|    | Toe Rd.                                | 159°-10'         | 37                     |               |                         |                         | 10.7               |                      | 919.3                       |
|    | "                                      | 175°-30'         | 1.64                   |               |                         |                         | 4.4                |                      | 25.6                        |
|    | 6' shld.<br>E N. Brighton Rd. 20' Pav. | 183°-15'         | 2.00                   |               |                         |                         | 0.8                |                      | 29.2                        |
|    | Toe Rd.                                | 176°-45'         | 2.30                   |               |                         |                         | 5.5                |                      | 24.5                        |
|    | Knoll                                  | 154°-00'         | 1.75                   |               |                         |                         | 7.7                |                      | 22.3                        |
|    | Toe Rd.                                | 177°-20'         | 3.16                   |               |                         |                         | 3.6                |                      | 26.4                        |
|    | Top Knoll                              | 171°-00'         | 2.70                   |               |                         |                         | 4.7                |                      | 25.3                        |
|    | Toe Rd.                                | 178°-00'         | 3.75                   |               | + 1                     | 3.75                    | 3.3                | +0.4                 | 30.4                        |
|    | G.E.                                   | 171°-30'         | 3.20                   |               |                         |                         | 6.0                |                      | 24.0                        |
|    | Toe Rd.                                | 178°-00'         | 4.40                   |               | + 1                     | 4.4                     | 4.2                | +0.2                 | 30.2                        |
|    | G.E.                                   | 172°-00'         | 3.70                   |               |                         |                         | 1.1                |                      | 28.9                        |



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| #9<br>OBJECT                                                             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | Rod<br>Equiv. | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------------------------------------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                                                          |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |               |                    |                      |                             |
| H.I. 930.04                                                              |          |        |               |                         |                         |               |                    |                      |                             |
| ± N. Brighton Rd                                                         | 181°-10' | 4.87   | —             | +                       | 2                       | 9.74          | 2.4                | +7.3                 | 937.3                       |
| G.E                                                                      | 167°-20' | 3.72   |               |                         |                         |               | 1.6                |                      | 28.4.                       |
| "                                                                        | 176°-10' | 5.00   |               | +                       | $\frac{1}{2}$           | 2.50          | 0.7                | +1.8                 | 31.8                        |
| ± Draw                                                                   | 168°-00' | 4.42   |               |                         |                         |               | 2.7                |                      | 27.3                        |
| "                                                                        | 174°-45' | 4.56   |               |                         |                         |               | 1.7                |                      | 28.3                        |
| Ridge                                                                    | 154°-00' | 3.50   |               |                         |                         |               | 7.4                |                      | 22.6                        |
| G.E                                                                      | 141°-40' | 1.85   |               |                         |                         |               | 10.9               |                      | 19.1                        |
| N. $\frac{1}{4}$ Cor sec-9                                               | 204°-05' | .30    |               |                         |                         |               | 4.6                |                      | 25.4                        |
| G.E                                                                      | 44°-30'  | 1.68   |               |                         |                         |               | 8.9                |                      | 21.1                        |
| B.M. spike in E. Pole S.W. Cor of Co Rd C. & N. Brighton Rd 150'S. of C. |          |        |               |                         |                         |               | 5.69               |                      | 924.35                      |
| G.E                                                                      | 33°-40'  | 1.14   |               |                         |                         |               | 11.2               |                      | 18.8                        |
| "                                                                        | 25°-00'  | 1.40   |               |                         |                         |               | 9.1                |                      | 20.9.                       |
| N. Brighton Rd & RR track                                                | 353°-50' | 1.47   | —             |                         |                         |               | 5.7                |                      | 24.3.                       |
| Flow Line 18" Conc. culv.                                                | 4°-20'   | 1.30   | —             |                         |                         |               | 10.5               |                      | 19.54                       |
| " " "                                                                    | 343°-40' | 1.31   | —             |                         |                         |               | 9.97               |                      | 20.07                       |
| ± track R.R.                                                             | 57°-30'  | 2.55   | —             |                         |                         |               | 6.7                |                      | 23.3                        |

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| #9                       | OBJECT<br><u>H.1 930.04</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------|-----------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                          |                             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| £ RR track               |                             | 71°-30'  | 4.07   | ✓             |                         |                         |               | 6.9                |                      | 923.1                       |
| Toe Rd                   |                             | 6°-15'   | .70    |               |                         |                         |               | 7.4                |                      | 22.6                        |
| G.E                      |                             | 16°-30'  | .86    |               |                         |                         |               | 7.6                |                      | 22.4                        |
| £ RR track               |                             | 77°-15'  | 5.50   | ✓             |                         |                         |               | 6.5                |                      | 23.5                        |
| " "                      |                             | 81°-10'  | 7.32   | ✓             |                         |                         |               | 6.1                |                      | 23.9                        |
| Toe Rd                   |                             | 2°-10'   | 2.70   |               |                         |                         |               | 7.2                |                      | 22.8                        |
| " "                      |                             | 0°-45'   | 3.50   |               |                         |                         |               | 8.4                |                      | 21.6                        |
| " "                      |                             | 79°-20'  | 7.48   |               |                         |                         |               | 9.1                |                      | 20.9                        |
| " "                      |                             | 1°-00'   | 4.45   |               | -                       | $\frac{1}{2}$           | 2.22          | 11.1               | -13.3                | 16.7                        |
| £ Co. Rd. "C"            |                             | 75°-20'  | 7.80   | ✓             |                         |                         |               | 2.1                |                      | 27.9                        |
| " "                      |                             | 73°-20'  | 6.90   | ✓             |                         |                         |               | 3.4                |                      | 26.6                        |
| Toe Rd                   |                             | 77°-20'  | 6.70   |               |                         |                         |               | 9.8                |                      | 20.2                        |
| Flow Line 18" Conc Culv. |                             | 0°-40'   | 4.88   | ✓             | -                       | $\frac{1}{2}$           | 2.44          | 11.75              | -14.19               | 15.85                       |
| Toe Rd                   |                             | 74°-00'  | 5.52   | ✓             |                         |                         |               | 11.3               |                      | 18.7                        |
| £ N Brighton Rd          |                             | 357°-30' | 4.88   | ✓             |                         |                         |               | 6.5                |                      | 23.5                        |
| £ Co. Rd. C.             |                             | 69°-00'  | 5.70   | ✓             |                         |                         |               | 5.6                |                      | 24.4                        |
| Flow Line 18" Conc Culv. |                             | 354°-30' | 4.89   | ✓             | -                       | $\frac{1}{2}$           | 2.44          | 11.1               | 13.54                | 16.50                       |

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| #9 | OBJECT                                       | AZIMUTH         | STADIA       | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|----------------------------------------------|-----------------|--------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                                              |                 |              |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H.I 930.04</u>                            |                 |              |               |                         |                         |               |                    |                      |                             |
|    | <u>± Co. Rd. C.</u>                          | <u>61°-20'</u>  | <u>4.42</u>  | <u>—</u>      |                         |                         |               | <u>7.50</u>        |                      | <u>922.5</u>                |
|    | <u>Toe Rd.</u>                               | <u>67°-30'</u>  | <u>4.15</u>  |               | <u>-</u>                | <u>1/2</u>              | <u>2.07</u>   | <u>10.9</u>        | <u>-13.0</u>         | <u>17.0</u>                 |
|    | <u>" "</u>                                   | <u>359°-50'</u> | <u>5.80</u>  |               |                         |                         |               | <u>9.7</u>         |                      | <u>20.3</u>                 |
|    | <u>" "</u>                                   | <u>53°-10'</u>  | <u>2.75</u>  |               | <u>-</u>                | <u>1/2</u>              | <u>1.37</u>   | <u>11.9</u>        | <u>-13.3</u>         | <u>16.7</u>                 |
|    | <u>G.E.</u>                                  | <u>1°-15'</u>   | <u>6.60</u>  |               |                         |                         |               | <u>4.9</u>         |                      | <u>25.1</u>                 |
|    | <u>± Co. Rd. C.</u>                          | <u>45°-00'</u>  | <u>3.10</u>  | <u>—</u>      |                         |                         |               | <u>7.0</u>         |                      | <u>23.0</u>                 |
|    | <u>Toe Rd.</u>                               | <u>359°-30'</u> | <u>7.50</u>  |               |                         |                         |               | <u>9.0</u>         |                      | <u>21.0</u>                 |
|    | <u>± Co. Rd. C</u>                           | <u>23°-50'</u>  | <u>2.46</u>  | <u>—</u>      |                         |                         |               | <u>6.4</u>         |                      | <u>23.6</u>                 |
|    | <u>± N. Brighton Rd</u>                      | <u>358°-10'</u> | <u>8.05</u>  | <u>—</u>      |                         |                         |               | <u>6.9</u>         |                      | <u>23.1</u>                 |
|    | <u>Toe Rd.</u>                               | <u>28°-10'</u>  | <u>2.00</u>  |               |                         |                         |               | <u>11.1</u>        |                      | <u>18.9</u>                 |
|    | <u>"</u>                                     | <u>359°-25'</u> | <u>9.00</u>  |               |                         |                         |               | <u>8.7</u>         |                      | <u>21.3</u>                 |
|    | <u>"</u>                                     | <u>12°-30'</u>  | <u>1.85</u>  |               |                         |                         |               | <u>9.3</u>         |                      | <u>20.7</u>                 |
|    | <u>"</u>                                     | <u>359°-30'</u> | <u>10.20</u> |               |                         |                         |               | <u>8.7</u>         |                      | <u>21.3</u>                 |
|    | <u>Int. Co. Rd. C. &amp; N. Brighton Rd.</u> | <u>356°-00'</u> | <u>2.30</u>  | <u>—</u>      |                         |                         |               | <u>5.8</u>         |                      | <u>24.2</u>                 |
|    | <u>Toe Rd.</u>                               | <u>359°-20'</u> | <u>11.10</u> |               |                         |                         |               | <u>7.6</u>         |                      | <u>22.4</u>                 |
|    | <u>± N. Brighton Rd.</u>                     | <u>358°-25'</u> | <u>11.05</u> | <u>—</u>      |                         |                         |               | <u>6.3</u>         |                      | <u>23.7</u>                 |
|    | <u>G.E.</u>                                  | <u>1°-10'</u>   | <u>11.00</u> |               |                         |                         |               | <u>1.8</u>         |                      | <u>28.2</u>                 |



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| #9       | OBJECT<br><u>H.I. 930.04</u> | AZIMUTH | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------|------------------------------|---------|--------|----------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|          |                              |         |        |          | Up+                     | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E      |                              | 3°-45'  | 11.00  | —        |                         |                         |               | 2.8                |                      | 927.2                       |
| "        |                              | 5°-40'  | 10.70  | —        |                         |                         |               | 0.2                |                      | 29.8                        |
| Top Hill |                              | 69°-10' | 7.90   | —        | +                       | 1½                      | 11.8          | 3.1                | +8.7                 | 38.7                        |
| G.E      |                              | 8°-15'  | 10.70  |          |                         |                         |               | 1.0                |                      | 29.0                        |
| Top Hill |                              | 61°-40' | 8.30   | —        | +                       | 1                       | 8.30          | 0.5                | +7.8                 | 37.8                        |
| G.E      |                              | 8°-50'  | 9.30   |          |                         |                         |               | 4.7                |                      | 25.3                        |
| Hill     |                              | 56°-40' | 8.80   | —        | +                       | 1                       | 8.80          | 0.7                | +8.1                 | 38.1                        |
| G.E      |                              | 4°-40'  | 9.30   |          |                         |                         |               | 6.8                |                      | 23.2                        |
| Hill     |                              | 52°-20' | 9.10   | —        | +                       | 1                       | 9.10          | 1.7                | +7.4                 | 37.4                        |
| G.E      |                              | 1°-00'  | 9.00   |          |                         |                         |               | 6.1                |                      | 23.9                        |
| Hill     |                              | 53°-10' | 9.65   | —        | +                       | 1                       | 9.65          | 0.0                | +9.6                 | 39.6                        |
| G.E      |                              | 4°-15'  | 7.85   |          |                         |                         |               | 3.2                |                      | 26.8                        |
| "        |                              | 8°-10'  | 8.08   |          |                         |                         |               | 0.4                |                      | 29.6                        |
| "        |                              | 54°-30' | 12.20  | —        | +                       | 1½                      | 18.3          | 8.50               | +9.8                 | 39.8                        |
| "        |                              | 11°-30' | 8.10   |          |                         |                         |               | 2.3                |                      | 27.7                        |
| "        |                              | 49°-15' | 11.80  | —        | +                       | ½                       | 5.9           | 5.8                | +0.1                 | 30.1                        |
| "        |                              | 14°-45' | 8.00   |          |                         |                         |               | 0.7                |                      | 29.3                        |

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| #9   | OBJECT      | AZIMUTH            | STADIA           | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |                   |
|------|-------------|--------------------|------------------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|-------------------|
|      | H.I. 930.04 |                    |                  |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |                   |
| G.E  |             | 41°-45'            | 11.80            |               | -                       | $\frac{1}{2}$           | 5.90               | 7.5                  | -13.4                       | 916.6             |
| "    |             | 18°-20'            | 8.10             |               |                         |                         |                    | 8.0                  |                             | 22.0              |
| "    |             | <del>42°-30'</del> | <del>10.60</del> |               |                         |                         |                    | 0.0                  |                             | <del>30.0</del> ? |
| "    |             | 17°-50'            | 7.12             |               |                         |                         |                    | 7.0                  |                             | 23.0              |
| "    |             | 43°-45'            | 9.05             |               |                         |                         |                    | 10.9                 |                             | 19.1              |
| "    |             | 13°-10'            | 7.10             |               |                         |                         |                    | 9.2                  |                             | 20.8              |
| "    |             | 46°-30'            | 7.70             |               |                         |                         |                    | 11.3                 |                             | 18.7.             |
| "    |             | 8°-00'             | 7.10             |               |                         |                         |                    | 5.6                  |                             | 24.4              |
| "    |             | 52°-10'            | 7.10             |               |                         |                         |                    | 12.4                 |                             | 17.6              |
| "    |             | 3°-50'             | 6.95             |               |                         |                         |                    | 6.9                  |                             | 23.1              |
| "    |             | 59°-00'            | 6.48             |               | -                       | $\frac{1}{2}$           | 3.24               | 10.5                 | -13.7.                      | 16.3              |
| "    |             | 1°-30'             | 6.65             |               |                         |                         |                    | 4.9                  |                             | 25.1              |
| "    |             | 65°-00'            | 6.10             |               |                         |                         |                    | 12.0                 |                             | 18.0              |
| "    |             | 4°-40'             | 6.10             |               |                         |                         |                    | 11.1                 |                             | 18.9              |
| Draw |             | 9°-30'             | 6.35             |               |                         |                         |                    | 12.1                 |                             | 17.9.             |
| "    |             | 14°-00'            | 6.40             |               | -                       | $\frac{1}{2}$           | 3.2                | 11.0                 | -14.2                       | 15.8              |
| Hill |             | 62°-40'            | 8.60             |               | +                       | $1\frac{1}{2}$          | 12.9               | 4.3                  | +8.6                        | 38.6.             |

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| #9 | OBJECT                    | AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----|---------------------------|---------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|    |                           |         |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|    | <u>H.I. 930.04</u>        |         |        |               |                         |                         |               |                    |                      |                             |
|    | Draw                      | 20°-45' | 6.30   | -             | -                       | $\frac{1}{2}$           | 3.15          | 11.5               | -14.6                | 15.4                        |
|    | Flow Line 16" conc. culv. | 66°-50' | 6.12   | -             |                         |                         |               | 7.9                |                      | 22.1                        |
|    | " " "                     | 68°-10' | 6.32   | -             |                         |                         |               | 7.4                |                      | 22.6                        |
|    | Top Knoll                 | 19°-30' | 3.12   |               |                         |                         |               | 5.2                |                      | 24.8                        |
|    | " "                       | 12°-50' | 3.00   |               |                         |                         |               | 5.1                |                      | 24.9                        |
|    | G.E.                      | 4°-50'  | 2.90   |               |                         |                         |               | 6.6                |                      | 23.4                        |
|    | "                         | 4°-40'  | 2.75   |               |                         |                         |               | 6.6                |                      | 23.4                        |
|    | "                         | 14°-30' | 2.82   |               |                         |                         |               | 6.5                |                      | 23.5                        |
|    | "                         | 26°-00' | 3.01   |               |                         |                         |               | 7.8                |                      | 22.2                        |
|    | "                         | 31°-00' | 3.20   |               |                         |                         |               | 10.3               |                      | 19.7                        |
|    | Top Rd.                   | 32°-00' | 3.05   |               |                         |                         |               | 11.2               |                      | 18.8                        |
|    | "                         | 25°-00' | 2.86   |               |                         |                         |               | 10.0               |                      | 20.0                        |
|    | "                         | 9°-45'  | 2.60   |               |                         |                         |               | 8.6                |                      | 21.4                        |
|    | "                         | 5°-00'  | 2.60   |               |                         |                         |               | 7.4                |                      | 22.6                        |
|    | G.E.                      | 5°-50'  | 4.30   |               | -                       | $\frac{1}{2}$           | 2.15          | 10.8               | -12.9                | 17.1                        |
|    | "                         | 13°-50' | 4.22   |               | -                       | $\frac{1}{2}$           | 2.1           | 10.5               | -12.6                | 17.4                        |
|    | "                         | 20°-50' | 4.30   |               | -                       | $\frac{1}{2}$           | 2.1           | 10.9               | -13.0                | 17.0                        |



Page 73 Transit. .... Obs. .... Line. Ditch 4  
 Date 10-28-44 Rec. ....

| #10 | OBJECT                      | AZIMUTH  | STADIA   | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-----------------------------|----------|----------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|     |                             |          |          |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|     |                             |          |          |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|     | H.I. = 4.61.                | 919.45   |          |               |                         |             |        |                    |                      |                             |
|     | At $\Delta$ #10             | 919.41   |          |               |                         |             |        |                    |                      | 914.82                      |
|     |                             |          |          |               |                         |             |        |                    |                      | 914.84                      |
|     | $\Delta$ #9                 | 210°-32' | 11.03    |               | +                       | 1           | 11.03  | 4.85               | 6.18                 | 925.59                      |
|     | Check Azi                   | 15°-22'  | Nazareth |               |                         |             |        |                    |                      |                             |
|     | $\Delta$ #11                | 49°-57'  | 4.10     |               | +                       | 1           | 4.10   | 7.95               | -3.85                | 915.58                      |
|     | Flow Line 42" conc. culv.   | 194°-10' | 6.80     | -             |                         |             |        | 12.0               |                      | 07.43                       |
|     | <del>Toe Rd</del> Top Ditch | 194°-30' | 6.75     |               |                         |             |        | 10.5               |                      | 08.9.                       |
|     | Toe Rd                      | 190°-45' | 6.88     |               |                         |             |        | 8.3                |                      | 11.1.                       |
|     | G.E. over Pipe              | 197°-30' | 7.20     | -             |                         |             |        | 6.3                |                      | 13.1.                       |
|     | Toe Fill                    | 183°-40' | 6.67     |               |                         |             |        | 7.6                |                      | 11.8                        |
|     | Toe Rd. Fence Cor. E & N    | 200°-15' | 7.12     | -             |                         |             |        | 8.7                |                      | 10.7                        |
|     | Toe Rd                      | 207°-45' | 7.60     |               |                         |             |        | 6.3                |                      | 13.1.                       |
|     | G.E.                        | 184°-30' | 5.50     |               |                         |             |        | 8.5                |                      | 10.9.                       |
|     | "                           | 211°-10' | 7.10     |               |                         |             |        | 4.9                |                      | 14.5                        |
|     | "                           | 188°-30' | 4.17     |               |                         |             |        | 6.7                |                      | 12.7.                       |
|     | "                           | 209°-10' | 6.90     |               |                         |             |        | 8.9                |                      | 10.5                        |
|     | "                           | 188°-10' | 3.45     |               |                         |             |        | 8.5                |                      | 10.9.                       |

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 Date 10-28-44 Rec.....

| #10<br>OBJECT | AZIMUTH     | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------|-------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|               |             |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|               | H. 1-919.43 |        |               |                         |                         |               |                    |                      |                             |
| G.E           | 214°-30'    | 5.92   |               |                         |                         |               | 9.7                |                      | 909.7                       |
| "             | 184°-50'    | 2.73   |               |                         |                         |               | 8.3                |                      | 11.1                        |
| Draw          | 221°-10'    | 6.08   |               |                         |                         |               | 8.4                |                      | 11.0                        |
| G.E           | 181°-45'    | 2.07   |               |                         |                         |               | 9.5                |                      | 09.9                        |
| ⊥ Draw        | 225°-16'    | 6.66   |               |                         |                         |               | 5.7                |                      | 13.7                        |
| G.E           | 218°-10'    | 5.29   |               |                         |                         |               | 8.9                |                      | 10.5                        |
| E & W Fence   | 249°-30'    | 94     | -             |                         |                         |               | 10.1               |                      | 09.3                        |
| G.E           | 212°-40'    | 4.60   |               |                         |                         |               | 8.8                |                      | 10.6                        |
| "             | 257°-00'    | 1.33   |               |                         |                         |               | 12.0               |                      | 07.4                        |
| " N & S Fence | 217°-20'    | 4.10   | -             |                         |                         |               | 5.3                |                      | 14.1                        |
| Top Ditch     | 261°-10'    | 188    |               |                         |                         |               | 12.2               |                      | 07.2                        |
| ⊥ "           | 261°-20'    | 189    | -             | -                       | $\frac{1}{2}$           | 0.9           | 12.0               | -12.9                | 06.5                        |
| Top "         | 261°-00'    | 190    |               |                         |                         |               | 11.8               |                      | 07.6                        |
| G.E           | 236°-30'    | 3.22   |               |                         |                         |               | 5.3                |                      | 14.1                        |
| Top Ditch     | 225°-40'    | 2.17   |               |                         |                         |               | 11.5               |                      | 07.9                        |
| " "           | 226°-50'    | 2.16   |               |                         |                         |               | 11.3               |                      | 08.1                        |
| ⊥ "           | 226°-20'    | 2.16   | -             | -                       | $\frac{1}{2}$           | 1.1           | 12.1               | -13.2                | 06.2                        |

Page 75 Transit ..... Obs. .... Line Ditch 4  
 Date 10-28-44 Rec. ....

| #10 | OBJECT                   | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |               |
|-----|--------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|---------------|
|     |                          |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             | Rod<br>Equiv. |
|     | H.I. 919.43              |          |        |               |                         |                         |                    |                      |                             |               |
|     | G.E.                     | 265°-45' | 3.15   | -             |                         |                         | 5.5                |                      | 913.9                       |               |
|     | "                        | 280°-00' | 3.30   | -             |                         |                         | 5.5                |                      | 13.9                        |               |
|     | Top Ditch                | 200°-30' | 3.89   | -             |                         |                         | 9.5                |                      | 09.9                        |               |
|     | " "                      | 202°-00' | 3.92   | -             |                         |                         | 8.8                |                      | 10.6                        |               |
| ☒   | "                        | 201°-15' | 3.92   | -             | -                       | $\frac{1}{2}$           | -1.96              | 11.3                 | -13.2                       | 06.2          |
|     | G.E.                     | 288°-30' | 4.00   | -             | +                       | $\frac{1}{2}$           | +2.00              | 0.0                  | +2.0                        | 21.4          |
|     | "                        | 301°-30' | 4.30   | -             | +                       | $\frac{1}{2}$           | +2.15              | 2.0                  | +0.1                        | 19.5          |
|     | Top Ditch                | 197°-00' | 5.35   | -             |                         |                         | 10.7               |                      | 08.7                        |               |
|     | " "                      | 196°-00' | 5.35   | -             |                         |                         | 10.5               |                      | 08.9                        |               |
| ☒   | "                        | 196°-30' | 5.35   | -             |                         |                         | 12.0               |                      | 07.4                        |               |
|     | G.E.                     | 303°-30' | 4.72   | -             | +                       | $\frac{1}{2}$           | +2.4               | 2.5                  | -0.1                        | 19.3          |
|     | "                        | 191°-50' | 5.70   | -             |                         |                         | 11.1               |                      | 08.3                        |               |
|     | "                        | 301°-50' | 5.50   | -             | +                       | 1                       | +5.50              | 2.5                  | +3.0                        | 22.4          |
|     | "                        | 193°-00' | 4.90   | -             |                         |                         | 10.2               |                      | 09.2                        |               |
|     | "                        | 194°-30' | 4.20   | -             |                         |                         | 8.1                |                      | 11.3                        |               |
|     | Flow Line 15" Conc Culv. | 304°-10' | 6.96   | ✓             | +                       | $\frac{1}{2}$           | 3.48               | 5.90                 | -2.42                       | 17.01         |
|     | G.E.                     | 198°-30' | 3.10   | -             |                         |                         | 10.4               |                      | 09.0                        |               |



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 Date 10-28-44 Rec. ....

| #10 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H.I. 919.43</u> |          |        |               |                         |                               |               |                    |                      |                             |
|     | Pot Hole           | 306°-45' | 6.76   | ✓             | +                       | $\frac{1}{2}$                 | 3.35          | 6.3                | -3.0                 | 916.4                       |
|     | G.E.               | 203°-30' | 2.25   |               |                         |                               |               | 12.0               |                      | 07.4                        |
|     | Edge Pot Hole      | 299°-40' | 6.40   | ✓             | +                       | 1                             | 6.40          | 7.4                | -1.0                 | 18.4                        |
|     | G.E.               | 217°-20' | 1.48   |               |                         |                               |               | 11.3               |                      | 08.1                        |
|     | Draw               | 312°-00' | 5.90   | -             |                         |                               |               | 1.6                |                      | 17.8                        |
|     | Φ "                | 316°-50' | 5.30   | -             |                         |                               |               | 4.6                |                      | 14.8                        |
|     | " "                | 168°-00' | 1.90   |               |                         |                               |               | 8.0                |                      | 11.4                        |
|     | Fence Cor S+E      | 322°-50' | 4.94   | ✓             |                         |                               |               | 9.2                |                      | 10.2                        |
|     | Φ Draw             | 150°-10' | 1.77   |               |                         |                               |               | 5.9                |                      | 13.5                        |
|     | G.E.               | 320°-50' | 6.00   | -             | +                       | $\frac{1}{2}$                 | 3.00          | 1.3                | +1.7                 | 21.1                        |
|     | Φ Draw             | 134°-30' | 2.00   |               |                         |                               |               | 3.3                |                      | 16.1                        |
|     | G.E.               | 319°-00' | 6.70   | -             | +                       | $\frac{1}{2}$                 | 3.35          | 2.1                | +1.2                 | 20.6                        |
|     | Edge Pot Hole      | 314°-00' | 6.70   | -             |                         |                               |               | 1.6                |                      | 17.8                        |
|     | Draw               | 116°-10' | 2.20   |               |                         |                               |               | 3.0                |                      | 16.4                        |
|     | Edge Pot Hole      | 310°-15' | 7.48   | ✓             | +                       | $\frac{1}{2}$                 | 3.74          | 3.9                | -0.2                 | 19.2                        |
|     | Top Hill           | 315°-15' | 7.90   | -             | +                       | $1\frac{1}{2}$                | 11.85         | 0.3                | +11.5                | 30.9                        |
|     | G.E.               | 323°-00' | 7.50   | -             | +                       | 1                             | 7.50          | 1.1                | +6.4                 | 25.8                        |

Page 77 Transit                      Obs.                      Line Ditch 4  
 Date 10-28-44 Rec.                     

| #10 | OBJECT            | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |                   |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     |                   |          |        |               |                         | Rod<br>Equiv.           |                    |                      |                             |
|     | <u>H 1.919.43</u> |          |        |               |                         |                         |                    |                      |                             |
|     | G.E.              | 330°-40' | 7.68   | -             | +                       | 1 1/2                   | 11.52              | +9.2                 | 928.6                       |
|     | "                 | 335°-30' | 7.95   | -             | +                       | 1                       | 7.95               | +6.4                 | 25.8                        |
|     | "                 | 198°-40' | 6.25   | -             |                         |                         | 11.5               |                      | 07.9                        |
|     | "                 | 341°-20' | 8.25   | -             | +                       | 1                       | 8.25               | +6.5                 | 25.9                        |
|     | "                 | 202°-00' | 5.04   | -             |                         |                         | 11.5               |                      | 07.9 ?                      |
|     | "                 | 347°-40' | 8.95   | -             | +                       | 1 1/2                   | 4.47               | +1.5                 | 20.9                        |
|     | "                 | 205°-40' | 4.00   |               |                         |                         | 8.8                |                      | 10.6                        |
|     | Top Hill          | 346°-30' | 9.90   | -             | +                       | 1 1/2                   | 4.95               | +2.6                 | 22.0                        |
|     | G.E.              | 214°-40' | 3.80   |               |                         |                         | 6.5                |                      | 12.9                        |
|     | Top Hill          | 353°-50' | 10.20  | -             | +                       | 1 1/2                   | 5.10               | +3.6                 | 23.0                        |
|     | G.E.              | 216°-00' | 3.30   |               |                         |                         | 9.8                |                      | 09.6                        |
|     | Hill              | 358°-10' | 10.65  | -             | +                       | 1                       | 10.65              | +5.9                 | 25.3                        |
|     | G.E.              | 232°-20' | 2.47   |               |                         |                         | 10.8               |                      | 08.6                        |
|     | Hill              | 1°-00'   | 11.30  |               | +                       | 1 1/2                   | 5.65               | +1.9                 | 21.3                        |
|     | G.E.              | 264°-15' | 2.06   |               |                         |                         | 12.2               |                      | 07.2                        |
|     | Hill              | 3°-45'   | 12.92  |               | +                       | 1                       | 12.92              | +8.3                 | 27.7                        |
|     |                   | 300°-00' | 2.30   | -             | -                       | 1 1/2                   | 1.1                | -12.6                | 06.8                        |

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 Date 10-28-44 Rec.....

| #10 | OBJECT           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------------|----------|--------|---------------|-------------------------|-------------------------------|--------------------|----------------------|-----------------------------|
|     |                  |          |        |               | Up+                     | No. of Int.<br>Down- or Angle |                    |                      |                             |
|     | Hill             | 7°-45'   | 12.50  | -             | +                       | $\frac{1}{2}$                 | 6.25               | 3.9                  | +2.3                        |
|     | G.E.             | 322°-40' | 3.30   |               |                         |                               |                    | 12.2                 | 07.2                        |
|     | Hill             | 10°-40'  | 12.00  |               | +                       | $\frac{1}{2}$                 | 6.00               | 3.3                  | +2.7                        |
|     | E & W Fence Line | 338°-20' | 4.46   | -             | -                       | $\frac{1}{2}$                 | 2.23               | 10.3                 | -12.5                       |
|     | Saddle           | 15°-00'  | 11.74  |               |                         |                               |                    | 4.6                  | 14.8                        |
|     | Top Ditch        | 353°-40' | 4.05   |               | -                       | $\frac{1}{2}$                 | 2.02               | 10.8                 | -12.8                       |
|     | " "              | 356°-50' | 3.98   |               | -                       | $\frac{1}{2}$                 | 1.99               | 11.9                 | -13.9                       |
|     | " "              | 356°-20' | 4.00   | -             | -                       | 1                             | 4.00               | 10.7                 | -14.7                       |
|     | Hill             | 23°-10'  | 11.40  |               | +                       | $\frac{1}{2}$                 | 5.70               | 2.1                  | +3.6                        |
|     | Top Ditch        | 342°-50' | 3.28   |               | -                       | $\frac{1}{2}$                 | 1.64               | 11.0                 | -12.6                       |
|     | " "              | 342°-20' | 3.29   | -             | -                       | $\frac{1}{2}$                 | 1.64               | 12.4                 | -14.0                       |
|     | Top "            | 341°-45' | 3.30   |               | -                       | $\frac{1}{2}$                 | 1.65               | 11.9                 | -13.5                       |
|     | G.E.             | 11°-30'  | 11.10  |               |                         |                               |                    | 2.6                  | 16.8                        |
|     | Angle Ditch      | 334°-15' | 3.01   | -             | -                       | $\frac{1}{2}$                 | 1.00               | 12.4                 | -13.4                       |
|     | G.E.             | 7°-40'   | 11.22  |               |                         |                               |                    | 4.8                  | 14.6                        |
|     | Top Ditch        | 307°-15' | 2.10   |               | -                       | $\frac{1}{2}$                 | 1.05               | 11.3                 | -12.3                       |
|     | " "              | 307°-40' | 2.08   | -             | -                       | $\frac{1}{2}$                 | 1.04               | 12.2                 | -13.2                       |



Page 79 Transit ..... Obs. .... Line. Ditch 4  
 Date 10-28-44 Rec. ....

| #10<br>OBJECT | AZIMUTH     | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |               |
|---------------|-------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|---------------|
|               |             |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             | Rod<br>Equiv. |
|               | H.I. 919.43 |        |               |                         |                         |                    |                      |                             |               |
| Top Ditch     | 308°-10'    | 2.04   |               | -                       | $\frac{1}{2}$           | -2.02              | 12.10                | -14.1                       | 905.3         |
| G.E.          | 3°-20'      | 10.23  |               |                         |                         |                    | 5.1                  |                             | 14.3          |
| "             | 359°-30'    | 9.10   |               |                         |                         |                    | 0.8                  |                             | 18.6          |
| "             | 267°-30'    | 2.49   |               |                         |                         |                    | 10.1                 |                             | 09.3          |
| "             | 355°-00'    | 8.34   |               |                         |                         |                    | 4.6                  |                             | 14.8          |
| N & S Fence   | 292°-45'    | 2.71   | ✓             |                         |                         |                    | 10.7                 |                             | 08.7          |
| G.E.          | 346°-15'    | 7.30   |               |                         |                         |                    | 1.5                  |                             | 17.9          |
| N & S. Fence  | 314°-40'    | 3.54   | ✓             |                         |                         |                    | 9.9                  |                             | 09.5          |
| G.E.          | 337°-20'    | 7.15   |               | +                       | $\frac{1}{2}$           | +3.57              | 1.1                  | +2.5                        | 21.9          |
| N & S. Fence  | 322°-45'    | 4.17   | -             |                         |                         |                    | 10.4                 |                             | 09.0          |
| G.E.          | 337°-20'    | 6.35   |               |                         |                         |                    | 1.7                  |                             | 17.7          |
| G.E.          | 326°-45'    | 5.94   |               |                         |                         |                    | 5.6                  |                             | 13.8          |
| "             | 328°-30'    | 2.28   |               | -                       | $\frac{1}{2}$           | -1.14              | 11.2                 | -12.3                       | 07.1          |
| "             | 338°-00'    | 2.55   |               | -                       | $\frac{1}{2}$           | -1.27              | 11.4                 | -12.7                       | 06.7          |
| E & W Fence   | 4°-30'      | 3.98   | -             | -                       | $\frac{1}{2}$           | -1.99              | 11.0                 | -13.0                       | 06.4          |
| " "           | 19°-00'     | 4.08   |               |                         |                         |                    | 11.5                 |                             | 07.9          |
| G.E.          | 2°-10'      | 3.22   |               | -                       | $\frac{1}{2}$           | 1.6                | 10.8                 | -12.4                       | 07.0          |

Page 80 Transit.....Obs.....Line.....Date 10-28-44 Rec.....

| #10      | OBJECT<br><u>H.1.919.43</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------|-----------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|          |                             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| G.E.     |                             | 23°-40'  | 3.69   |               |                         |                         | 9.9                |                      | 909.5                       |
| "        |                             | 32°-30'  | 3.70   |               |                         |                         | 5.5                |                      | 13.9                        |
| "        |                             | 340°-45' | 2.16   |               |                         |                         | 11.5               |                      | 07.9                        |
| Hill     |                             | 40°-50'  | 3.53   |               | +                       | $\frac{1}{2}$           | 1.76               | 0.8                  | +1.0 20.4                   |
| G.E.     |                             | 306°-30' | 1.45   |               |                         |                         | 11.4               |                      | 08.0                        |
| "        |                             | 47°-00'  | 2.68   |               | +                       | $\frac{1}{2}$           | 1.34               | 2.5                  | -1.2 18.2                   |
| "        |                             | 31°-00'  | 2.70   |               |                         |                         | 0.8                |                      | 18.6                        |
| "        |                             | 17°-00'  | 2.70   |               |                         |                         | 8.4                |                      | 11.0                        |
| "        |                             | 282°-00' | 1.60   |               | -                       | $\frac{1}{2}$           | 0.8                | 11.5                 | -12.3 07.1                  |
| "        |                             | 2°-50'   | 1.55   |               |                         |                         | 7.6                |                      | 11.8                        |
| "        |                             | 329°-15' | .60    |               |                         |                         | 7.9                |                      | 11.5                        |
| Hill     |                             | 54°-00'  | .85    |               | +                       | 3°-50'                  | 5.2                | 5.0                  | +0.2 19.6                   |
| Pot Hole |                             | 81°-50'  | 2.56   | -             | +                       | 1°-00'                  | 4.5                | 10.0                 | -5.5 13.9                   |
| Draw     |                             | 102°-30' | 2.40   | -             | +                       | 1                       | 2.4                | 5.5                  | -3.1 16.3                   |

Page 81 Transit Ditch Obs. Line  
 Date 10-30-44 Rec.

| OBJECT                           | AZIMUTH         | STADIA      | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------------------------------|-----------------|-------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                  |                 |             |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| <u>A+ Δ #10</u>                  |                 |             |               |                         |                         |               |                    |                      |                             |
| <u>H.I. = 4.57 = 919.39</u>      |                 |             |               |                         |                         |               |                    |                      |                             |
| <u>Top Ditch &amp; E+W Fence</u> | <u>40°-00'</u>  | <u>4.00</u> | <u>—</u>      | <u>—</u>                | <u>1/2</u>              | <u>2.00</u>   | <u>11.5</u>        | <u>-13.5</u>         | <u>905.9</u>                |
| <u>☿ "</u>                       | <u>40°-00'</u>  | <u>4.02</u> | <u>—</u>      | <u>—</u>                | <u>1/2</u>              | <u>2.01</u>   | <u>11.9</u>        | <u>-13.9</u>         | <u>05.5</u>                 |
| <u>Top "</u>                     | <u>40°-00'</u>  | <u>4.07</u> | <u>—</u>      | <u>—</u>                | <u>1/2</u>              | <u>2.03</u>   | <u>11.4</u>        | <u>-13.4</u>         | <u>06.0</u>                 |
| <u>" " E+W Fence</u>             | <u>20°-20'</u>  | <u>4.08</u> |               |                         |                         |               | <u>10.4</u>        |                      | <u>09.0</u>                 |
| <u>☿ "</u>                       | <u>20°-15'</u>  | <u>4.11</u> | <u>—</u>      | <u>—</u>                | <u>1/2</u>              | <u>2.05</u>   | <u>11.2</u>        | <u>-13.2</u>         | <u>06.2</u>                 |
| <u>Top "</u>                     | <u>20°-15'</u>  | <u>4.18</u> |               |                         |                         |               | <u>11.5</u>        |                      | <u>07.9</u>                 |
| <u>G.E.</u>                      | <u>339°-40'</u> | <u>6.07</u> |               |                         |                         |               | <u>6.9</u>         |                      | <u>12.5</u>                 |
| <u>Top Ditch</u>                 | <u>28°-30'</u>  | <u>4.47</u> |               |                         |                         |               | <u>7.4</u>         |                      | <u>12.0</u>                 |
| <u>☿ "</u>                       | <u>29°-00'</u>  | <u>4.30</u> | <u>—</u>      |                         |                         |               | <u>12.9</u>        |                      | <u>06.5</u>                 |
| <u>Top " E+W Fence</u>           | <u>29°-20'</u>  | <u>4.26</u> | <u>—</u>      |                         |                         |               | <u>8.0</u>         |                      | <u>11.4</u>                 |
| <u>G.E. S.W.P.</u>               | <u>344°-00'</u> | <u>5.33</u> |               |                         |                         |               | <u>11.0</u>        |                      | <u>08.4</u>                 |
| <u>G.E.</u>                      | <u>346°-00'</u> | <u>6.70</u> |               |                         |                         |               | <u>6.3</u>         |                      | <u>13.1</u>                 |
| <u>SWP.</u>                      | <u>350°-45'</u> | <u>5.90</u> |               |                         |                         |               | <u>11.1</u>        |                      | <u>08.3</u>                 |
| <u>G.E. SWP.</u>                 | <u>18°-30'</u>  | <u>4.88</u> |               |                         |                         |               | <u>12.2</u>        |                      | <u>07.2</u>                 |
| <u>G.E.</u>                      | <u>354°-20'</u> | <u>7.35</u> |               |                         |                         |               | <u>7.9</u>         |                      | <u>11.5</u>                 |
| <u>" SWP.</u>                    | <u>15°-30'</u>  | <u>5.95</u> | <u>—</u>      | <u>1/2</u>              | <u>3.0</u>              | <u>10.2</u>   | <u>-13.2</u>       |                      | <u>06.2</u>                 |



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| #10 | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |        |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     |        |          |        |               |                         |                         |                    |                      |                             |
|     | G.E.   | 358°-00' | 6.63   |               |                         |                         | 10.7               |                      | 908.7                       |
|     | " SWP. | 11°-15'  | 6.12   |               | -                       | $\frac{1}{2}$           | 3.06               | 10.5                 | -13.6 05.8                  |
|     | G.E.   | 0°-00'   | 8.08   |               |                         |                         | 7.1                |                      | 12.3                        |
|     | " SWP. | 7°-50'   | 7.10   |               | -                       | $\frac{1}{2}$           | 3.55               | 9.8                  | -13.0 06.4                  |
|     | G.E.   | 5°-00'   | 7.70   |               |                         |                         | 10.9               |                      | 08.5                        |
|     | " SWP. | 10°-15'  | 7.72   |               | -                       | $\frac{1}{2}$           | 3.86               | 9.3                  | -13.2 06.2                  |
|     | G.E.   | 2°-00'   | 9.60   |               |                         |                         | 5.3                |                      | 14.1                        |
|     | "      | 7°-15'   | 8.60   |               |                         |                         | 11.1               |                      | 08.3                        |
|     | "      | 4°-40'   | 10.25  |               |                         |                         | 6.3                |                      | 13.1                        |
|     | "      | 9°-30'   | 9.50   |               |                         |                         | 12.0               |                      | 07.4                        |
|     | "      | 7°-40'   | 10.65  |               |                         |                         | 7.2                |                      | 12.2                        |
|     | "      | 2°-30'   | 6.30   |               | -                       | $\frac{1}{2}$           | 3.15               | 9.8                  | -12.9 06.5                  |
|     | "      | 9°-15'   | 7.08   |               | -                       | $\frac{1}{2}$           | 3.54               | 9.7                  | -13.2 06.2                  |
|     | "      | 355°-50' | 5.45   |               | -                       | $\frac{1}{2}$           | 2.72               | 10.6                 | -13.3 06.1                  |
|     | "      | 14°-30'  | 6.50   |               | -                       | $\frac{1}{2}$           | 3.25               | 10.7                 | -13.9 05.5                  |
|     | "      | 348°-30' | 4.80   |               | -                       | $\frac{1}{2}$           | 2.40               | 11.0                 | -13.4 06.0                  |
|     | "      | 19°-50'  | 5.95   |               | -                       | $\frac{1}{2}$           | 2.97               | 11.1                 | -14.1 05.3                  |

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 Date 10-30-44 Rec. ....

| #10 | OBJECT              | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|---------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |                     |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     | G.E.                | 0°-10'   | 4.70   |               | -                       | $\frac{1}{2}$           | 2.35               | 11.1                 | -13.4 906.0                 |
|     | "                   | 21°-20'  | 5.32   |               |                         |                         |                    | 11.3                 | 08.1                        |
|     | "                   | 6°-15'   | 5.40   |               | -                       | $\frac{1}{2}$           | 2.70               | 10.7                 | -13.4 06.0                  |
|     | "                   | 23°-30'  | 4.88   |               |                         |                         |                    | 9.9                  | 09.5                        |
|     | "                   | 9°-00'   | 4.70   |               | -                       | $\frac{1}{2}$           | 2.35               | 11.3                 | -12.6 05.8                  |
|     | H.I. = 4.64         | 920.22   |        |               |                         |                         |                    |                      |                             |
|     |                     | 919.95   |        |               |                         |                         |                    |                      |                             |
|     |                     |          | 920.08 |               |                         |                         |                    |                      |                             |
| #11 | At A #11            |          |        |               |                         |                         |                    |                      | 915.44                      |
|     |                     |          |        |               |                         |                         |                    |                      | 915.58                      |
|     | A #10               | 229°-57' | 4.10   |               | +                       | $1\frac{1}{2}$          | 6.15               | 11.28                | 5.13 914.82                 |
|     | A #12               | 57°-39'  | 3.70   |               |                         |                         |                    | 10.45                | 909.63                      |
|     | Top Ditch E+W Fence | 13°-30'  | 91     |               | -                       |                         |                    | 10.9                 | 09.2                        |
|     | ☒ "                 | 15°-00'  | 99     |               | -                       |                         |                    | 13.7                 | 06.4                        |
|     | Top "               | 15°-45'  | 1.09   |               |                         |                         |                    | 10.2                 | 09.9                        |
|     | Hill                | 37°-10'  | 3.40   |               |                         |                         |                    | 2.1                  | 18.0                        |
|     | "                   | 33°-00'  | 3.72   |               |                         |                         |                    | 1.0                  | 19.1                        |
|     | Top Ditch           | 63°-40'  | 1.70   |               |                         |                         |                    | 10.7                 | 09.4                        |
|     | ☒ "                 | 66°-30'  | 1.69   |               | -                       |                         |                    | 14.3                 | 05.8                        |

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| #11                  | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------------------|-------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                      |             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|                      | H.I. 920.08 |          |        |               |                         |                         |                    |                      |                             |
| Hill                 |             | 26°-50'  | 4.70   |               |                         |                         | 4.2                |                      | 915.9.                      |
| Top Ditch            |             | 67°-10'  | 1.67   |               |                         |                         | 12.0               |                      | 08.1                        |
| Hill                 |             | 22°-10'  | 5.54   |               |                         |                         | 2.5                |                      | 17.6                        |
| "                    |             | 10°-30'  | 6.45   |               |                         |                         | 0.9                |                      | 19.2                        |
| G.E.                 |             | 5°-40'   | 7.05   |               |                         |                         | 2.5                |                      | 17.6                        |
| Hill N+S Fence:      |             | 151°-00' | 4.49   | -             | +                       | 3°-10'                  | 24.8               | 5.0                  | +19.8 39.9                  |
| "                    |             | 358°-10' | 7.74   |               |                         |                         | 5.4                |                      | 14.7                        |
| G.E.                 |             | 354°-00' | 8.34   |               |                         |                         | 2.3                |                      | 17.8                        |
| N+S Fence            |             | 126°-45' | 4.15   | -             | +                       | 3°-00'                  | 21.7               | 5.0                  | +16.7 36.8                  |
| G.E.                 |             | 352°-45' | 7.89   |               |                         |                         | 8.1                |                      | 12.0                        |
| N+S Fence            |             | 96°-10'  | 4.94   | -             | +                       | 10-25'                  | 12.2               | 5.0                  | +7.2 27.3                   |
| G.E.                 |             | 36°-30'  | 7.50   |               |                         |                         | 9.0                |                      | 11.1 ?                      |
| "                    |             | 353°-30' | 6.92   |               | -                       | 1/2                     | 3.46               | 8.8                  | -12.3 07.8                  |
| Fence cor E+W & N+S. |             | 82°-00'  | 6.10   | -             | +                       | 1/2                     | 3.05               | 1.2                  | +1.8 21.9                   |
| G.E.                 |             | 6°-30'   | 6.30   |               |                         |                         | 5.3                |                      | 14.8                        |
| "                    |             | 73°-15'  | 5.30   |               |                         |                         | 4.1                |                      | 16.0                        |
| "                    |             | 357°-40' | 5.88   |               |                         |                         | 12.0               |                      | 08.1                        |



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 Date. 10-30-44 Rec. ....

| #11 | OBJECT           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                  |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>41.920.08</u> |          |        |               |                         |                               |               |                    |                      |                             |
|     | N+S Fence        | 75°-30'  | 7.00   | —             |                         |                               |               | 1.3                |                      | 918.8                       |
|     | G.E.             | 10°-40'  | 5.11   |               |                         |                               |               | 7.2                |                      | 12.9                        |
|     | "                | 6°-15'   | 5.00   |               |                         |                               |               | 9.2                |                      | 10.9                        |
|     | N+S Fence        | 68°-50'  | 8.12   | ✓             |                         |                               |               | 9.3                |                      | 10.8                        |
|     | G.E.             | 8°-30'   | 4.75   |               |                         |                               |               | 12.2               |                      | 07.9                        |
|     | "                | 11°-30'  | 4.30   |               |                         |                               |               | 10.1               |                      | 10.0                        |
|     | "                | 21°-40'  | 3.70   |               |                         |                               |               | 6.7                |                      | 13.4                        |
|     | "                | 25°-40'  | 2.90   |               |                         |                               |               | 6.0                |                      | 14.1                        |
|     | " Corn Field     | 62°-30'  | 5.83   |               |                         |                               |               | 11.8               |                      | 08.3                        |
|     | G.E.             | 42°-00'  | 2.60   |               |                         |                               |               | 5.9                |                      | 14.2                        |
|     | £ S. Ditch       | 44°-00'  | 1.28   | —             | -                       | 1                             | 1.28          | 12.0               | -13.3                | 06.8                        |
|     | G.E.             | 86°-10'  | 4.05   |               | +                       | $\frac{1}{2}$                 | 2.02          | 0.9                | +1.1                 | 21.2                        |
|     | Top S. Ditch     | 20°-40'  | 1.88   |               |                         |                               |               | 9.0                |                      | 11.1                        |
|     | £ "              | 19°-30'  | 1.85   | —             | -                       | $\frac{1}{2}$                 | 0.92          | 11.5               | -12.4                | 07.7                        |
|     | Top "            | 17°-10'  | 1.80   |               |                         |                               |               | 9.0                |                      | 11.1                        |
|     | G.E.             | 111°-20' | 3.11   |               | +                       | 1                             | 3.11          | 0.5                | +2.6                 | 22.7                        |
|     | "                | 9°-45'   | 1.50   |               |                         |                               |               | 10.5               |                      | 09.6                        |

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 Date 10-30-44 Rec.....

| #11          | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------|--------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|              |                    |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|              | <u>H.I. 920.08</u> |          |        |               |                         |                               |               |                    |                      |                             |
| G.E.         |                    | 151°-00' | 3.30   | ✓             | +                       | 2°-30'                        | 14.4          | 5.0                | +9.4                 | 929.5                       |
| "            |                    | 352°-20' | 1.80   | ✓             |                         |                               |               | 5.6                |                      | 14.5                        |
| "            |                    | 335°-50' | 2.06   | ✓             |                         |                               |               | 10.1               |                      | 10.0                        |
| Draw.        |                    | 180°-30' | 2.05   | ✓             |                         |                               |               | 1.3                |                      | 18.8                        |
| G.E.         |                    | 189°-45' | 2.66   | ✓             |                         |                               |               | 2.5                |                      | 17.6                        |
| "            |                    | 343°-10' | 2.87   | ✓             |                         |                               |               | 12.3               |                      | 07.8                        |
| "            |                    | 167°-30' | .88    | ✓             |                         |                               |               | 4.7                |                      | 15.4                        |
| Top S. Ditch |                    | 7°-00'   | 2.45   | ✓             |                         |                               |               | 8.8                |                      | 11.3                        |
| ☿ " "        |                    | 9°-00'   | 2.46   | ✓             |                         |                               |               | 11.8               |                      | 08.3                        |
| Top " "      |                    | 10°-00'  | 2.48   | ✓             |                         |                               |               | 9.3                |                      | 10.8                        |
| N+S Fence    |                    | 142°-40' | 1.68   | ✓             |                         |                               |               | 2.5                |                      | 17.6                        |
| G.E.         |                    | 356°-30' | 2.90   | ✓             |                         |                               |               | 12.2               |                      | 07.9                        |
| "            |                    | 87°-45'  | 1.50   | ✓             |                         |                               |               | 11.8               |                      | 08.3                        |
| "            |                    | 350°-30' | 3.80   | ✓             | -                       | $\frac{1}{2}$                 | 1.90          | 12.0               | -13.9                | 06.2                        |
| "            |                    | 77°-10'  | 1.68   | ✓             |                         |                               |               | 11.5               |                      | 08.6                        |
| "            |                    | 350°-00' | 4.92   | ✓             | -                       | $\frac{1}{2}$                 | 2.46          | 11.2               | -13.7                | 06.4                        |
| "            |                    | 77°-00'  | .95    | ✓             |                         |                               |               | 10.3               |                      | 09.8                        |

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 Date 10-30-44 Rec.

| #11 | OBJECT                   | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |                             |
|-----|--------------------------|------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|-----------------------------|
|     |                          |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             | Rod<br>Equiv.               |
|     | H.I. 920.08              |                  |        |               |                         |                         |                    |                      |                             |                             |
|     | G.E.                     | 349°-45'         | 6.10   |               | -                       | $\frac{1}{2}$           | 3.05               | 10.5                 | -13.5                       | 906.6                       |
|     | "                        | 130°-00'         | .75    | -             |                         |                         |                    | 6.3                  |                             | 13.8                        |
|     | "                        | 2°-40'           | 4.20   |               |                         |                         |                    | 12.2                 |                             | 07.9                        |
|     | "                        | 209°-30'         | 1.10   | -             | +                       | 2°-30'                  | 2.7                | 5.0                  | -2.3                        | 17.8                        |
|     | "                        | 184°-20'         | 90     | -             |                         |                         |                    | 3.9                  |                             | 16.2                        |
|     | "                        | 49°-40'          | 1.80   |               |                         |                         |                    | 9.9                  |                             | 10.2                        |
|     | "                        | 146°-15'         | 37     | -             |                         |                         |                    | 5.4                  |                             | 14.7                        |
|     | "                        | 59°-40'          | 52     |               |                         |                         |                    | 9.8                  |                             | 10.3                        |
|     | "                        | 319°-20'         | 90     |               |                         |                         |                    | 5.4                  |                             | 14.7                        |
|     | H.I. = 4.59 G.E. = 0.5   | 914.22<br>914.17 |        |               |                         |                         |                    |                      |                             | 909.60<br><del>909.63</del> |
| 2   | A+ $\Delta$ #12          |                  |        |               |                         |                         |                    |                      |                             |                             |
|     | $\Delta$ #11             | 237°-39'         | 3.70   |               | +                       | $\frac{1}{2}$           | +1.85              | 0.58                 | +1.27                       | 915.44                      |
|     | $\Delta$ #13             | 30°-18'          | 3.42   |               |                         |                         |                    | 8.49                 |                             | 905.70                      |
|     | old hub                  | 191°-50'         | 95     | -             |                         |                         |                    | 4.71                 |                             | 909.49                      |
|     | Flow Line 24" C.M. Culv. | 56°-30'          | 66     | -             |                         |                         |                    | 10.75                |                             | 03.45                       |
|     | Top Ditch                | 227°-45'         | 1.80   |               |                         |                         |                    | 5.2                  |                             | 09.0                        |



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| #12  | OBJECT<br><u>H. 1. 914.19</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|-------------------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|      |                               |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| ±    | Ditch                         | 225°-10' | 182    | —             |                         |                               |               | 9.3                |                      | 904.9                       |
| Top  | "                             | 223°-40' | 90     |               |                         |                               |               | 6.2                |                      | 08.0                        |
| ±    | Drive                         | 52°-40'  | 73     | —             |                         |                               |               | 7.3                |                      | 06.9                        |
|      | Flowline 24" C.M. culv.       | 48°-45'  | 84     | —             |                         |                               |               | 10.95              |                      | 03.25                       |
| Top  | Ditch                         | 204°-15' | 70     |               |                         |                               |               | 5.6                |                      | 08.6                        |
| "    | "                             | 55°-00'  | 55     |               |                         |                               |               | 7.5                |                      | 06.9                        |
| "    | "                             | 62°-20'  | 60     |               |                         |                               |               | 7.8                |                      | 06.4                        |
| ±    | "                             | 198°-20' | 71     | —             |                         |                               |               | 9.9                |                      | 04.3                        |
| Top  | "                             | 194°-10' | 72     |               |                         |                               |               | 5.9                |                      | 08.3                        |
| "    | "                             | 120°-45' | 17     |               |                         |                               |               | 6.1                |                      | 08.1                        |
| ±    | "                             | 117°-00' | 26     | —             |                         |                               |               | 9.9                |                      | 04.3                        |
| Top  | "                             | 118°-00' | 31     |               |                         |                               |               | 6.5                |                      | 07.7                        |
| "    | "                             | 41°-00'  | 88     |               |                         |                               |               | 7.5                |                      | 06.7                        |
| ±    | "                             | 46°-00'  | 92     | —             |                         |                               |               | 11.7               |                      | 02.5                        |
| Top  | "                             | 47°-30'  | 98     |               |                         |                               |               | 6.3                |                      | 07.9                        |
| G.E. |                               | 234°-30' | 88     |               |                         |                               |               | 4.0                |                      | 10.2                        |
| Top  | Ditch                         | 30°-30'  | 140    |               |                         |                               |               | 9.3                |                      | 04.9                        |

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 Date 10-30-44 Rec.

| #12              | OBJECT<br><u>H.1 914.19</u> | AZIMUTH         | STADIA      | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------|-----------------------------|-----------------|-------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                  |                             |                 |             |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| <u>E Ditch</u>   |                             | <u>28°-00'</u>  | <u>1.35</u> | <u>✓</u>      | <u>-</u>                | <u>1/2</u>              | <u>0.67</u>   | <u>12.2</u>        | <u>-12.9</u>         | <u>901.3</u>                |
| <u>Top "</u>     |                             | <u>26°-10'</u>  | <u>1.34</u> |               |                         |                         |               | <u>8.4</u>         |                      | <u>05.8</u>                 |
| <u>E Drive</u>   |                             | <u>9°-30'</u>   | <u>77</u>   | <u>-</u>      |                         |                         |               | <u>6.3</u>         |                      | <u>07.9</u>                 |
| <u>Top Ditch</u> |                             | <u>26°-00'</u>  | <u>2.05</u> |               |                         |                         |               | <u>9.2</u>         |                      | <u>05.0</u>                 |
| <u>G.E</u>       |                             | <u>15°-40'</u>  | <u>1.80</u> |               |                         |                         |               | <u>7.6</u>         |                      | <u>06.6</u>                 |
| <u>Top Ditch</u> |                             | <u>28°-45'</u>  | <u>2.09</u> |               |                         |                         |               | <u>10.0</u>        |                      | <u>04.2</u>                 |
| <u>E "</u>       |                             | <u>27°-40'</u>  | <u>2.08</u> | <u>-</u>      | <u>-</u>                | <u>1</u>                | <u>2.08</u>   | <u>11.5</u>        | <u>-13.6</u>         | <u>00.6</u>                 |
| <u>G.E</u>       |                             | <u>19°-00'</u>  | <u>2.31</u> |               |                         |                         |               | <u>7.6</u>         |                      | <u>06.6</u>                 |
| <u>"</u>         |                             | <u>25°-30'</u>  | <u>2.85</u> |               |                         |                         |               | <u>6.8</u>         |                      | <u>07.4</u>                 |
| <u>Top Hill</u>  |                             | <u>20°-45'</u>  | <u>3.26</u> |               |                         |                         |               | <u>1.0</u>         |                      | <u>13.2</u>                 |
| <u>N+S Fence</u> |                             | <u>35°-40'</u>  | <u>2.20</u> | <u>-</u>      |                         |                         |               | <u>6.2</u>         |                      | <u>08.0</u>                 |
| <u>Draw</u>      |                             | <u>8°-40'</u>   | <u>2.60</u> |               |                         |                         |               | <u>3.2</u>         |                      | <u>11.0</u>                 |
| <u>G.E.</u>      |                             | <u>47°-00'</u>  | <u>2.19</u> |               | <u>+</u>                | <u>1</u>                | <u>2.19</u>   | <u>4.9</u>         | <u>-2.7</u>          | <u>11.5</u>                 |
| <u>Hill</u>      |                             | <u>1°-20'</u>   | <u>3.50</u> |               | <u>+</u>                | <u>1</u>                | <u>3.50</u>   | <u>1.9</u>         | <u>+1.6</u>          | <u>15.8</u>                 |
| <u>"</u>         |                             | <u>341°-30'</u> | <u>3.16</u> |               | <u>+</u>                | <u>1°-30'</u>           | <u>8.2</u>    | <u>5.0</u>         | <u>+3.2</u>          | <u>17.4</u>                 |
| <u>G.E</u>       |                             | <u>3°-30'</u>   | <u>2.00</u> |               |                         |                         |               | <u>1.4</u>         |                      | <u>12.8</u>                 |
| <u>Draw</u>      |                             | <u>347°-00'</u> | <u>2.25</u> |               | <u>+</u>                | <u>1/2</u>              | <u>1.1</u>    | <u>1.5</u>         | <u>-0.4</u>          | <u>13.8</u>                 |

Page 90 Transit. .... Obs. .... Line. ....Date 10-30-94 Rec. ....

| #12 | OBJECT           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |                  |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     | Drive            | 343°-00' | 6.36   | ✓             |                         |                         | 1.5                |                      | 912.7                       |
|     | G.E              | 321°-30' | 1.00   |               | +                       | 3°-00'                  | 5.2                | 5.0                  | +0.2 14.4                   |
|     | "                | 286°-15' | .65    |               | +                       | 5°-45'                  | 6.5                | 5.0                  | +1.5 15.7                   |
|     | Fence cor E & N. | 54°-20'  | .87    |               |                         |                         | 6.5                |                      | 07.7                        |
|     | " Angle          | 35°-20'  | 1.64   |               |                         |                         | 6.3                |                      | 07.9                        |
| #13 | H.I. = 4.57      | 910.27   | 910.27 |               |                         |                         |                    |                      |                             |
|     |                  | 910.28   |        |               |                         |                         |                    |                      |                             |
|     | A + Δ #13        |          |        |               |                         |                         |                    |                      | 905.70                      |
|     | Δ #12            | 210°-18' | 3.42   |               |                         |                         | 0.68               |                      | 909.60                      |
|     | Δ #14            | 1°-32'   | 4.25   |               | - 1/2                   | -2.13                   | -10.16             | -12.29               | 897.98                      |
|     | Top Ditch        | 206°-00' | 74     | -             |                         |                         | 6.0                |                      | 904.3                       |
|     | ☒ "              | 201°-00' | 78     | ✓             |                         |                         | 9.8                |                      | 00.5                        |
|     | Top "            | 194°-15' | 80     | -             |                         |                         | 6.0                |                      | 04.3                        |
|     | " "              | 10°-40'  | 2.35   | -             |                         |                         | 10.3               |                      | 00.0                        |
|     | ☒ "              | 147°-30' | .35    | -             |                         |                         | 11.4               |                      | 898.9                       |
|     | Top "            | 149°-30' | 38     | -             |                         |                         | 7.1                |                      | 903.2                       |
|     | " "              | 144°-45' | 27     | -             |                         |                         | 7.6                |                      | 02.7                        |



Page. 91 Transit. .... Obs. .... Line. Ditch 4  
 Date. 10-30-44 Rec. ....

| #13 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     | <u>H.I. 910.27</u> |          |        |               |                         |                         |                    |                      |                             |
|     | G.E.               | 18°-00'  | 2.34   |               |                         |                         | 10.2               |                      | 900.1                       |
|     | "                  | 26°-20'  | 2.30   |               |                         |                         | 11.4               |                      | 898.9                       |
|     | ± Ditch            | 64°-10'  | 56     | —             |                         |                         | 12.8               |                      | 97.5                        |
|     | Top "              | 66°-00'  | 63     |               |                         |                         | 9.0                |                      | 901.3                       |
|     | G.E.               | 47°-15'  | 2.46   |               |                         |                         | 4.7                |                      | 05.6                        |
|     | Top Ditch          | 57°-00'  | 54     |               |                         |                         | 8.8                |                      | 01.5                        |
|     | G.E.               | 67°-40'  | 2.32   |               | +                       | 2 1/2                   | 5.8                | -2.1                 | 08.2                        |
|     | "                  | 109°-00' | 1.24   |               |                         |                         | 8.8                |                      | 01.5                        |
|     | Top Ditch          | 18°-10'  | 1.17   |               |                         |                         | 10.8               |                      | 899.5                       |
|     | ± "                | 20°-00'  | 1.19   | ✓             |                         |                         | 13.6               |                      | 96.7                        |
|     | Top "              | 21°-10'  | 1.23   |               |                         |                         | 11.0               |                      | 99.3                        |
|     | G.E.               | 133°-40' | 1.19   |               |                         |                         | 6.5                |                      | 903.8                       |
|     | Top Ditch          | 7°-00'   | 2.28   |               |                         |                         | 11.6               |                      | 898.7                       |
|     | ± "                | 7°-50'   | 2.26   | —             |                         |                         | 14.5               |                      | 95.8                        |
|     | Top "              | 9°-40'   | 2.25   |               |                         |                         | 11.2               |                      | 99.1                        |
|     | G.E.               | 133°-00' | 1.86   |               |                         |                         | 5.3                |                      | 905.0                       |
|     | Hill               | 346°-45' | 3.67   |               | +                       | 1 1/2                   | 1.8                | +0.6                 | 10.9                        |

Page 92 Transit. .... Obs. .... Line. ....  
 Date 10-30-44 Rec. ....

| #13 | OBJECT<br><u>H.I. 910.27</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|     |                              |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|     | Draw                         | 333°-15' | 3.74   | —             |                         |                         | 4.8                |                      | 905.5                       |
|     | G.E.                         | 174°-20' | 1.08   | —             |                         |                         | 3.4                |                      | 06.9                        |
|     | Draw                         | 331°-00' | 4.80   | —             |                         |                         | 3.5                |                      | 06.8                        |
|     | G.E.                         | 71°-40'  | 1.28   | —             |                         |                         | 9.1                |                      | 01.2                        |
|     | G.E.                         | 329°-15' | 5.75   | —             |                         |                         | 2.0                |                      | 08.3                        |
|     | "                            | 42°-15'  | 1.10   | —             |                         |                         | 10.4               |                      | 899.9                       |
|     | Hill                         | 327°-00' | 7.05   | —             | +                       | 1½                      | 10.5               | +7.2                 | 917.5                       |
|     | G.E.                         | 27°-45'  | 1.55   | —             |                         |                         | 10.5               |                      | 899.8                       |
|     | "                            | 320°-00' | 6.15   | —             | +                       | 1½                      | 9.2                | +5.39                | 15.6                        |
|     | "                            | 320°-30' | 4.90   | —             | +                       | 1½                      | 7.3                | +5.4                 | 15.7                        |
|     | "                            | 2°-00'   | 2.80   | —             |                         |                         | 9.5                |                      | 00.8                        |
|     | "                            | 317°-30' | 3.78   | —             | +                       | 1½                      | 5.7                | +3.8                 | 14.1                        |
|     | "                            | 344°-45' | 2.55   | —             |                         |                         | 8.7                |                      | 01.6                        |
|     | ± Draw.                      | 339°-40' | 2.45   | —             |                         |                         | 10.2               |                      | 00.1                        |
|     | G.E.                         | 309°-20' | 2.87   | —             | +                       | 2                       | 6.8                | +1.0                 | 11.3                        |
|     | "                            | 342°-00' | 1.84   | —             |                         |                         | 10.2               |                      | 00.1                        |
|     | "                            | 322°-30' | 3.05   | —             |                         |                         | 3.9                |                      | 06.4                        |

Page 93 Transit.....Obs.....Line.....Ditch 4  
 Date 10-30-44 Rec.....

| #13 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|     |                    |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|     | <u>H.I. 910.27</u> |          |        |               |                         |             |        |                    |                      |                             |
|     | G.E                | 355°-00' | 1.25   |               |                         |             |        | 10.7               |                      | 899.6                       |
|     | "                  | 3°-00'   | .53    |               |                         |             |        | 8.3                |                      | 902.0                       |
|     | "                  | 310°-40' | 1.80   |               | +                       | 1°-45'      | 5.5    | 5.0                | +0.5                 | 10.8                        |
|     | "                  | 326°-30' | .90    |               |                         |             |        | 4.1                |                      | 06.2                        |
|     | "                  | 322°-00' | 2.00   |               |                         |             |        | 4.5                |                      | 05.8                        |
|     | Draw               | 332°-10' | 3.04   |               |                         |             |        | 7.5                |                      | 02.8                        |
|     | Hill               | 342°-00' | 4.45   |               | +                       | 1/2         | 2.2    | 4.1                | -1.9                 | 08.4                        |
|     | G.E.               | 339°-30' | 3.10   |               |                         |             |        | 5.3                |                      | 05.0                        |
|     | Hill               | 339°-00' | 5.24   |               | +                       | 1/2         | 2.6    | 1.3                | +0.3                 | 10.6                        |
|     | "                  | 336°-40' | 6.10   |               | +                       | 1/2         | 3.0    | 3.9                | -0.9                 | 09.4                        |
|     | "                  | 333°-50' | 6.80   |               | +                       | 1/2         | 3.4    | 0.0                | +3.4                 | 13.7                        |
|     | "                  | 328°-45' | 7.70   |               | +                       | 1           | 7.7    | 0.0                | +7.7                 | 18.0                        |



Page 926 Transit.....Obs.....Line.....Date 10-31-44 Rec.....

| #14<br>OBJECT             | AZIMUTH              | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------------|----------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                           |                      |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| H.I. 4.27                 | 902.25 }<br>902.19 } |        |               |                         | 902.22                  |               |                    |                      |                             |
| AT $\Delta$ 14 .5 TO G.E. |                      |        |               |                         |                         |               |                    |                      | 897.95<br><del>897.98</del> |
| $\Delta$ 13               | 181°-32'             | 4.25   |               | +                       | 1                       | 4.25          | 0.74               | +3.51                | 905.70                      |
| $\Delta$ 15               | 61°-36'              | 8.51   |               |                         |                         |               | 2.13               |                      | 900.07                      |
| $\Delta$ #14 A            | 103°-12'             | 5.46   |               |                         |                         |               | 2.10               |                      | 900.12                      |
| G.E.                      | 237°-00'             | 0.40   |               |                         |                         |               | 0.5                |                      | 01.7                        |
| "                         | 344°-30'             | 0.36   |               |                         |                         |               | 4.6                |                      | 897.6                       |
| "                         | 357°-00'             | 0.40   |               |                         |                         |               | 6.2                |                      | 96.0                        |
| "                         | 304°-20'             | 1.22   |               | +                       | 3°-15'                  | 6.9           | 5.0                | +1.9                 | 904.1                       |
| "                         | 17°-10'              | 1.24   |               |                         |                         |               | 7.0                |                      | 895.2                       |
|                           | 308°-10'             | 3.00   |               | +                       | 1°-50'                  | 9.6           | 5.0                | +4.6                 | 906.8                       |
| W.S. POND                 | 31°-00'              | 2.26   |               |                         |                         |               | 9.7                |                      | 892.5                       |
| G.E.                      | 312°-00'             | 4.50   |               | +                       | 1½                      | 6.7           | 5.10               | +1.6                 | 903.8                       |
| W.S.                      | 0°-10'               | 2.13   |               |                         |                         |               | 9.70               |                      | 892.5                       |
| G.E.                      | 311°-40'             | 6.15   |               | +                       | 1½                      | 9.2           | 2.7                | +6.5                 | 908.7                       |
| "                         | 346°-15'             | 1.80   |               |                         |                         |               | 7.2                |                      | 895.0                       |
| HILL                      | 310°-40'             | 7.50   |               | +                       | 2.0                     | 15.0          | 2.0                | +13.0                | 915.2                       |

Page 95 Transit.....Obs.....Line.....  
 Date 10-31-44 Rec.....

#14

| OBJECT       | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|              |          |        |               | Up+                     | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| H.I. 902.22  |          |        |               |                         |                         |               |                    |                      |                             |
| G.E.         | 227°-40' | 1.95   |               |                         |                         |               | 4.9                |                      | 897.3                       |
| "            | 225°-00' | 1.90   |               |                         |                         |               | 2.7                |                      | 99.5                        |
| "            | 313°-30' | 7.10   |               | +                       | 1 1/2                   | 10.6          | 3.1                | +7.5                 | 909.7                       |
| W.S.         | 331°-40' | 2.40   |               |                         |                         |               |                    |                      |                             |
| G.E.         | 316°-30' | 5.30   |               | +                       | 1/2                     | 2.6           | 1.6                | +1.0                 | 903.2                       |
| "            | 219°-10' | 3.43   |               |                         |                         |               | 3.0                |                      | 899.2                       |
| "            | 320°-40' | 5.10   |               | +                       | 1/2                     | 2.5           | 2.0                | +0.5                 | 902.7                       |
| "            | 316°-40' | 3.48   |               |                         |                         |               | 0.0                |                      | 02.2                        |
| W.S.         | 331°-45' | 4.55   |               |                         |                         |               |                    |                      |                             |
| GE           | 322°-00' | 4.70   |               |                         |                         |               | 4.0                |                      | 898.2                       |
| HILL         | 317°-45' | 8.50   |               | +                       | 1                       | 8.5           | 2.0                | +6.5                 | 908.7                       |
| W.S.         | 334°-30' | 5.50   |               |                         |                         |               |                    |                      |                             |
| E. & W. F.E. | 330°-30' | 5.85   | -             |                         |                         |               | 8.3                |                      | 894.0                       |
| HILL         | 333°-20' | 9.80   |               | +                       | 1 1/2                   | 14.7          | 5.5                | +9.2                 | 911.4                       |
| E. & W. F.L. | 325°-30' | 6.12   | -             |                         |                         |               | 3.7                |                      | 898.5                       |
| HILL         | 346°-10' | 10.80  |               | +                       | 1                       | 10.8          | 2.4                | +8.4                 | 910.6                       |
| G.E.         | 333°-30' | 7.08   |               |                         |                         |               | 4.5                |                      | 897.7                       |

Page 96 Transit.....Obs.....Line.....  
 Date 10-21-44 Rec.....

| #14 | OBJECT            | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-------------------|----------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|     |                   |          |        |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H-1.902.22</u> |          |        |               |                         |             |               |                    |                      |                             |
|     | HILL              | 354°-15' | 10.40  |               | +                       | 1 1/2       | 15.6          | 4.4                | +11.2                | 913.4                       |
|     | G.E.              | 345°-50' | 7.53   |               |                         |             |               | 2.5                |                      | 899.7                       |
|     | "                 | 346°-10' | 8.40   |               | +                       | 1           | 9.4           | 2.6                | +6.8                 | 909.0                       |
|     | "                 | 353°-00' | 8.70   |               |                         |             |               | 1.3                |                      | 00.9                        |
|     | "                 | 334°-10' | 7.40   |               |                         |             |               | 4.4                |                      | 897.8                       |
|     | "                 | 0°-30'   | 8.75   |               | +                       | 1           | 8.7           | 1.9                | +6.8                 | 909.0                       |
|     | "                 | 346°-50' | 7.20   |               |                         |             |               | 5.7                |                      | 896.5                       |
|     | "                 | 347°-30' | 7.10   |               |                         |             |               | 8.0                |                      | 94.2                        |
|     | W.S.              | 348°-40' | 6.62   |               |                         |             |               |                    |                      |                             |
|     | HILL              | 7°-30'   | 8.00   |               | +                       | 1 1/2       | 12.0          | 1.1                | +10.9                | 913.1                       |
|     | G.E.              | 355°-40' | 7.66   |               |                         |             |               | 6.2                |                      | 896.0                       |
|     | "                 | 355°-45' | 7.50   |               |                         |             |               | 8.2                |                      | 94.0                        |
|     | HILL              | 14°-30'  | 7.20   |               | +                       | 1           | 7.2           | 3.7                | +3.5                 | 905.7                       |
|     | W.S.              | 0°-40'   | 7.05   |               |                         |             |               |                    |                      |                             |
|     | HILL              | 25°-20'  | 6.35   |               | +                       | 1/2         | 3.2           | 1.2                | +2.0                 | 904.2                       |
|     | G.E.              | 5°-10'   | 7.20   |               |                         |             |               | 5.5                |                      | 896.7                       |
|     | "                 | 14°-40'  | 6.05   |               |                         |             |               | 3.1                |                      | 99.1                        |



Page 97 Transit                      Obs.                      Line Ditch 4  
 Date 10-31-44 Rec.                     

| #14 | OBJECT | AZIMUTH            | STADIA      | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------|--------------------|-------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |        |                    |             |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|     |        | <u>H.I. 902.22</u> |             |               |                         |                         |               |                    |                      |                             |
|     | W.S.   | <u>8°-30'</u>      | <u>645</u>  |               |                         |                         |               |                    |                      |                             |
|     | G.E.   | <u>12°-10'</u>     | <u>687</u>  |               |                         |                         |               | <u>6.1</u>         |                      | <u>896.1</u>                |
|     | W.S.   | <u>18°-30'</u>     | <u>5.48</u> |               |                         |                         |               |                    |                      |                             |
|     | HILL   | <u>38°-15'</u>     | <u>8.10</u> |               | <u>+</u>                | <u>1</u>                | <u>8.1</u>    | <u>5.3</u>         | <u>+4.8</u>          | <u>907.0</u>                |
|     | G.E.   | <u>22°-00'</u>     | <u>5.87</u> |               |                         |                         |               | <u>7.5</u>         |                      | <u>894.7</u>                |
|     | HILL   | <u>30°-00'</u>     | <u>7.80</u> |               | <u>+</u>                | <u>1</u>                | <u>7.8</u>    | <u>1.7</u>         | <u>+6.1</u>          | <u>908.3</u>                |
|     | DRAW   | <u>34°-00'</u>     | <u>7.92</u> |               | <u>+</u>                | <u>1/2</u>              | <u>4.0</u>    | <u>4.1</u>         | <u>-0.1</u>          | <u>02.1</u>                 |
|     | W.S.   | <u>29°-10'</u>     | <u>5.30</u> |               |                         |                         |               |                    |                      |                             |
|     | G.E.   | <u>29°-15'</u>     | <u>5.70</u> |               |                         |                         |               | <u>8.0</u>         |                      | <u>894.2</u>                |
|     | "      | <u>27°-30'</u>     | <u>6.10</u> |               |                         |                         |               | <u>4.2</u>         |                      | <u>98.0</u>                 |
|     | HILL   | <u>43°-50'</u>     | <u>7.28</u> |               |                         |                         |               | <u>0.6</u>         |                      | <u>901.6</u>                |
|     | W.S.   | <u>39°-00'</u>     | <u>6.10</u> |               |                         |                         |               |                    |                      |                             |
|     | DRAW   | <u>47°-40'</u>     | <u>6.70</u> |               |                         |                         |               | <u>5.6</u>         |                      | <u>896.6</u>                |
|     | G.E.   | <u>38°-40'</u>     | <u>6.60</u> |               |                         |                         |               | <u>8.7</u>         |                      | <u>93.5</u>                 |
|     | "      | <u>38°-40'</u>     | <u>7.25</u> |               |                         |                         |               | <u>6.4</u>         |                      | <u>95.8</u>                 |
|     | "      | <u>52°-20'</u>     | <u>6.30</u> |               |                         |                         |               | <u>3.3</u>         |                      | <u>98.9</u>                 |
|     | "      | <u>40°-00'</u>     | <u>6.30</u> |               |                         |                         |               | <u>7.6</u>         |                      | <u>94.6</u>                 |

Page 98 Transit ..... Obs. .... Line .....  
 Date 10-31-44 Rec. ....

| #14 | OBJECT             | AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|---------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                    |         |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H.I. 902.22</u> |         |        |               |                         |                               |               |                    |                      |                             |
|     | G.E.               | 52°-15' | 6.28   |               |                         |                               |               | 3.6                |                      | 898.6                       |
|     | Water surface      | 46°-10' | 5.65   |               |                         |                               |               |                    |                      |                             |
|     | G.E.               | 50°-45' | 6.09   |               |                         |                               |               | 6.5                |                      | 95.7                        |
|     | W. surf.           | 53°-00' | 5.10   |               |                         |                               |               |                    |                      |                             |
|     | G.E.               | 59°-00' | 5.70   |               |                         |                               |               | 4.2                |                      | 98.0                        |
|     | "                  | 56°-00' | 5.50   |               |                         |                               |               | 7.8                |                      | 94.4                        |
|     | "                  | 57°-00' | 5.65   |               |                         |                               |               | 5.5                |                      | 96.7                        |
|     | ± Ditch.           | 62°-10' | 5.12   |               |                         |                               |               | 8.8                |                      | 93.4                        |
|     | Top "              | 61°-20' | 5.20   |               |                         |                               |               | 7.0                |                      | 95.2                        |
|     | " "                | 63°-00' | 5.10   |               |                         |                               |               | 7.3                |                      | 94.9                        |
|     | W.S.               | 59°-45' | 4.45   |               |                         |                               |               |                    |                      |                             |
|     | G.E.               | 71°-00' | 5.20   |               |                         |                               |               | 5.4                |                      | 96.8                        |
|     | W.S.               | 73°-40' | 3.60   |               |                         |                               |               |                    |                      |                             |
|     | G.E.               | 77°-00' | 4.92   |               |                         |                               |               | 6.5                |                      | 95.7                        |
|     | "                  | 78°-10' | 4.14   |               |                         |                               |               | 7.9                |                      | 94.3                        |
|     | "                  | 89°-15' | 4.70   |               |                         |                               |               | 2.0                |                      | 900.2                       |
|     | ± S. Ditch.        | 94°-15' | 4.00   |               |                         |                               |               | 7.4                |                      | 894.8                       |

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 Date 10-31-44 Rec. ....

| #14 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H.I. 902.22</u> |          |        |               |                         |                               |               |                    |                      |                             |
|     | Top S. Ditch       | 93°-20'  | 4.07   |               |                         |                               |               | 5.8                |                      | 896.4                       |
|     | " "                | 95°-30'  | 4.02   |               |                         |                               |               | 5.2                |                      | 97.0                        |
|     | G.E.               | 111°-10' | 5.14   |               | +                       | $\frac{1}{2}$                 | 2.57          | 1.5                | +1.1                 | 903.3                       |
|     | "                  | 116°-40' | 5.00   |               | +                       | 1                             | 5.00          | 2.3                | +2.7                 | 04.9.                       |
|     | "                  | 127°-20' | 5.00   |               | +                       | 1°-50                         | 16.0          | 10.0               | +6.0                 | 08.2                        |
|     | "                  | 125°-00' | 2.80   |               |                         |                               |               | 6.1                |                      | 896.1.                      |
|     | "                  | 139°-00' | 2.05   |               |                         |                               |               | 5.9                |                      | 96.3                        |
|     | F. Cor. E.W. N & S | 103°-40' | 3.82   | -             |                         |                               |               | 6.0                |                      | 96.2                        |
|     | G.E.               | 114°-30' | 1.74   |               |                         |                               |               | 7.8                |                      | 94.4                        |
|     | W.S.               | 83°-15'  | 3.22   | -             |                         |                               |               |                    |                      |                             |
|     | G.E.               | 104°-50' | 3.10   |               |                         |                               |               | 8.3                |                      | 93.9                        |
|     | "                  | 93°-30'  | 3.32   |               |                         |                               |               | 8.6                |                      | 93.6                        |
|     | "                  | 114°-45' | 4.07   |               |                         |                               |               | 3.5                |                      | 98.7.                       |
|     | W.S.               | 89°-40'  | 2.50   |               |                         |                               |               |                    |                      |                             |
|     | B.E.               | 109°-10' | 4.50   |               |                         |                               |               | 3.0                |                      | 99.2                        |
|     | "                  | 99°-00'  | 1.92   |               |                         |                               |               | 8.6                |                      | 93.6                        |
|     | W.S.               | 80°-00   | 1.80   |               |                         |                               |               |                    |                      |                             |



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| #14                                  | OBJECT<br><i>H.1.902.22</i> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------------------|-----------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                                      |                             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
| G.E.                                 |                             | 82°-30'  | 1.47   |               |                         |                         | 6.8                |                      | 895.4                       |
| F. Cor. <del>E</del> S. + Top Ditch. |                             | 107°-50' | 1.29   |               |                         |                         | 6.0                |                      | 96.2                        |
| W.S.                                 |                             | 54°-45'  | 1.86   |               |                         |                         |                    |                      |                             |
| E Ditch                              |                             | 69°-40'  | 1.32   | -             |                         |                         | 8.4                |                      | 93.8                        |
| Top "                                |                             | 71°-45'  | 1.34   |               |                         |                         | 7.3                |                      | 94.9                        |
| " "                                  |                             | 70°-30'  | 1.28   |               |                         |                         | 7.4                |                      | 94.8                        |
| " "                                  |                             | 164°-00' | 1.50   |               |                         |                         | 3.2                |                      | 99.0                        |
| £ "                                  |                             | 162°-00' | 1.52   | -             |                         |                         | 7.1                |                      | 95.1                        |
| Top " F. Line N + S.                 |                             | 161°-00' | 1.60   | -             |                         |                         | 3.5                |                      | 98.7                        |
| Angle in Ditch                       |                             | 91°-30'  | 1.09   | -             |                         |                         | 7.8                |                      | 94.4                        |
| Top "                                |                             | 91°-10'  | 1.12   |               |                         |                         | 6.7                |                      | 95.5                        |
| " "                                  |                             | 92°-30'  | 1.04   |               |                         |                         | 5.9                |                      | 96.3                        |
| " "                                  |                             | 105°-45' | 1.18   |               |                         |                         | 6.0                |                      | 96.2                        |
| £ "                                  |                             | 105°-40' | 1.22   | -             |                         |                         | 7.6                |                      | 94.6                        |
| G.E.                                 |                             | 98°-00'  | 73     |               |                         |                         | 7.0                |                      | 95.2                        |
| "                                    |                             | 117°-30' | 69     |               |                         |                         | 7.5                |                      | 94.7                        |
| "                                    |                             | 141°-00' | .52    |               |                         |                         | 5.6                |                      | 96.6                        |

Page 101 Transit Ditch 4 Obs. Ditch 4 Line Ditch 4  
 Date 10-31-44 Rec.

| 14-A | OBJECT             | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|--------------------|------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|      |                    |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|      | H.I. 4.55 G.E.-0.5 | 904.67<br>904.65 |        | 904.66        |                         |                         |                    |                      | 900.11<br>901.12            |
|      | A+ Δ 14 A          |                  |        |               |                         |                         |                    |                      |                             |
|      | Δ 14               | 283°-12'         | 5.46   |               |                         |                         | 6.70               |                      | 897.95                      |
|      | Δ 14 B             | 166°-07'         | 1.65   |               |                         |                         | 3.02               |                      | 901.64                      |
|      | ± S. Ditch         | 303°-56'         | .91    | -             |                         |                         | 9.6                |                      | 895.1                       |
|      | G.E.               | 296°-30'         | 1.11   |               |                         |                         | 7.5                |                      | 97.2                        |
|      | Top Ditch.         | 300°-30'         | 1.10   |               |                         |                         | 5.1                |                      | 99.6                        |
|      | " "                | 309°-45'         | .92    |               |                         |                         | 5.3                |                      | 99.4                        |
|      | " "                | 242°-00'         | .34    |               |                         |                         | 3.3                |                      | 901.4                       |
|      | ± "                | 242°-00'         | .25    | -             |                         |                         | 9.3                |                      | 895.4                       |
|      | G.E.               | 242°-00'         | .43    |               |                         |                         | 4.7                |                      | 900.6                       |
|      | Top Ditch.         | 250°-00'         | .17    |               |                         |                         | 4.5                |                      | 00.2                        |
|      | " "                | 187°-00'         | .86    |               |                         |                         | 1.4                |                      | 03.3                        |
|      | ± "                | 180°-00'         | .78    | -             |                         |                         | 8.6                |                      | 896.1                       |
|      | Top "              | 172°-15'         | .77    |               |                         |                         | 2.0                |                      | 902.7                       |
|      | G.E.               | 169°-00'         | .72    |               |                         |                         | 28                 |                      | 01.9                        |

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| OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                    |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| <u>H.I. 904.66</u> |          |        |               |                         |                               |               |                    |                      |                             |
| G.E.               | 190°-36' | .88    |               |                         |                               |               | 3.1                |                      | 901.6                       |
| Top Ditch.         | 169°-30' | 1.45   |               |                         |                               |               | 2.8                |                      | 01.9                        |
| " "                | 180°-45' | 1.30   |               |                         |                               |               | 2.7                |                      | 02.0                        |
| G.E.               | 183°-30' | 1.30   |               |                         |                               |               | 3.4                |                      | 01.3                        |
| ☿ Ditch.           | 174°-20' | 1.42   |               |                         |                               |               | 8.8                |                      | 895.9                       |
| Top "              | 173°-00' | 2.06   |               |                         |                               |               | 6.2                |                      | 98.5                        |
| ☿ "                | 170°-30' | 2.02   |               |                         |                               |               | 8.9                |                      | 95.8                        |
| G.E.               | 175°-00' | 2.04   |               |                         |                               |               | 6.9                |                      | 97.8                        |
| Hill               | 143°-10' | 1.30   |               | +                       | 1°-00'                        | 2.3           | 5.0                | -2.7                 | 902.0 ?                     |
| G.E.               | 356°-40' | .85    |               |                         |                               |               | 5.7                |                      | 899.0                       |
| Hill               | 68°-30'  | 1.06   |               | +                       | 4°-05'                        | 7.5           | 5.0                | +2.5                 | 907.2                       |
| G.E.               | 9°-45'   | 1.70   |               |                         |                               |               | 4.5                |                      | 00.2                        |
| "                  | 23°-20'  | 1.80   |               |                         |                               |               | 3.3                |                      | 01.4                        |
| H.I.               | 38°-45'  | 1.97   |               | +                       | 2°-25'                        | 8.3           | 5.0                | +3.3                 | 08.0                        |
| "                  | 34°-45'  | 3.60   |               | +                       | 1°-30'                        | 9.4           | 5.0                | +4.4                 | 09.1                        |



Page. 103 Transit. .... Obs. .... Line. Ditch 4  
 Date. 10-31-44 Rec. ....

| #14-B<br>OBJECT                                     | AZIMUTH          | STADIA   | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------------------------------|------------------|----------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                                                     |                  |          |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
| H.I. = 4.77                                         | 906.41<br>906.39 | } 906.40 |               |                         |                         |                    |                      |                             |
| A + Δ 14 B.                                         |                  |          |               |                         |                         |                    |                      |                             |
| Δ 14 A                                              | 346°-07'         | 1.65     |               |                         |                         | 6.28               |                      | 900.11                      |
| W.S. Pond.                                          | 136°-00'         | 86       | ✓             |                         |                         |                    |                      |                             |
| W.S.                                                | 74°-30'          | 2.02     | ✓             |                         |                         |                    |                      |                             |
| "                                                   | 60°-00'          | 3.56     | ✓             |                         |                         |                    |                      |                             |
| "                                                   | 64°-30'          | 4.90     | ✓             |                         |                         |                    |                      |                             |
| W.S.                                                | 71°-00'          | 5.70     | ✓             |                         |                         | 11.1               |                      | 895.3                       |
| Flow Line 24" conc. C.V. <sup>ACROSS SNELLING</sup> | 71°-30'          | 6.20     | ✓             |                         |                         | 11.8               |                      | 94.6                        |
| W. line of Snelling                                 | 70°-15'          | 6.86     | ✓             |                         |                         | 0.8                |                      | 905.6                       |
| E " " "                                             | 70°-10'          | 7.47     | ✓             |                         |                         | 0.7                |                      | 905.7                       |
| Top Ditch.                                          | 171°-20'         | .32      |               |                         |                         | 7.8                |                      | 898.6                       |
| " Hill                                              | 38°-30'          | 1.76     |               | +                       | 1°-30'                  | 4.6                | 5.0                  | -0.4 906.0                  |
| W.S.                                                | 81°-20'          | 5.80     |               |                         |                         |                    |                      |                             |
| Hill                                                | 45°-50'          | 3.18     |               | +                       | 1/2                     | 1.6                | 5.4                  | -3.8 902.6                  |
| W.S.                                                | 90°-10'          | 5.32     |               |                         |                         |                    |                      |                             |

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#

14-B

OBJECT

AZIMUTH

STADIA

DIS-  
TANCE

INTERVALS OR VER. ANGLE

Up+ No. of Int.  
Down- or AngleRod  
Equiv.READ.  
ON  
RODDIFF.  
OF  
ELEV.ELEVATION  
ABOVE  
DATUM

H.I. 906.40

|         |          |      |   |     |     |     |      |       |
|---------|----------|------|---|-----|-----|-----|------|-------|
| Draw    | 49°-30'  | 4.27 | - |     |     | 3.0 |      | 903.4 |
| G.E.    | 96°-00'  | 5.38 | - |     |     | 9.7 |      | 896.7 |
| Hill    | 52°-15'  | 5.29 | - | + 1 | 5.3 | 0.0 | +5.3 | 911.7 |
| Toe Rd. | 90°-00'  | 5.90 | - |     |     | 8.2 |      | 898.2 |
| Hill    | 56°-20'  | 5.75 | - | + 1 | 5.7 | 2.3 | +3.4 | 909.8 |
| "       | 58°-20'  | 6.60 | - | + 1 | 6.6 | 2.0 | +4.6 | 911.0 |
| W.S.    | 110°-00' | 5.90 | - |     |     |     |      |       |
| Toe Rd. | 109°-45' | 6.15 | - |     |     | 8.4 |      | 898.0 |
| " "     | 66°-15'  | 6.12 | - |     |     | 8.5 |      | 97.9  |
| W.S.    | 120°-00' | 5.50 | - |     |     |     |      |       |
| G.E.    | 58°-10'  | 4.90 | - |     |     | 8.6 |      | 97.8  |
| W.S.    | 130°-15' | 5.00 | - |     |     |     |      |       |
| G.E.    | 53°-10'  | 3.50 | - |     |     | 8.9 |      | 97.5  |
| W.S.    | 138°-00' | 4.08 | - |     |     |     |      |       |
| G.E.    | 53°-30'  | 1.32 | - |     |     | 6.7 |      | 99.7  |
| W.S.    | 145°-30' | 3.20 | - |     |     |     |      |       |
| W.S.    | 157°-30' | 2.50 | - |     |     |     |      |       |

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 Date 10-31-44 Rec.

| #      | OBJECT        | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------|---------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|        |               |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| # 14-B |               |          |        |               |                         |                               |               |                    |                      |                             |
|        | F. Line N4 S. | 228°-15' | 1.98   | —             |                         |                               |               | 4.4                |                      | 902.0                       |
|        | W.S.          | 174°-30' | 1.70   | —             |                         |                               |               |                    |                      |                             |
|        | G.E.          | 221°-45' | 2.80   | —             |                         |                               |               | 4.0                |                      | 02.4                        |
|        | "             | 192°-50' | 1.87   | —             |                         |                               |               | 10.1               |                      | 896.3                       |
|        | "             | 186°-00' | 2.50   | —             |                         |                               |               | 8.5                |                      | 97.9                        |
|        | "             | 212°-00' | 2.10   | —             |                         |                               |               | 9.0                |                      | 97.4                        |
|        | "             | 182°-10' | 3.40   | —             |                         |                               |               | 3.7                |                      | 902.7                       |
|        | Hill          | 182°-00' | 4.00   | —             | +                       | 1°-50'                        | 12.8          | 5.0                | +7.8                 | 14.2                        |
|        | G.E.          | 218°-40' | 4.10   | —             |                         |                               |               | 0.4                |                      | 06.0                        |
|        | Hill          | 177°-00' | 4.10   | —             | +                       | 1°-50'                        | 13.1          | 5.0                | +8.1                 | 14.5                        |
|        | G.E.          | 195°-30' | 3.45   | —             |                         |                               |               | 3.9                |                      | 02.5                        |
|        | Hill          | 161°-10' | 4.54   | —             | +                       | 1°-35'                        | 12.5          | 5.0                | +7.5                 | 13.9                        |
|        | G.E.          | 164°-30' | 3.80   | —             |                         |                               |               | 4.0                |                      | 02.4                        |
|        | Hill          | 151°-00' | 5.72   | —             | +                       | 1°-10'                        | 11.7          | 5.0                | +6.7                 | 13.1                        |
|        | G.E.          | 151°-45' | 4.84   | —             |                         |                               |               | 3.2                |                      | 03.2                        |
|        | Hill          | 145°-30' | 6.20   | —             | +                       | 1                             | 6.2           | 2.7                | +3.5                 | 09.9                        |
|        | G.E.          | 142°-00' | 5.50   | —             |                         |                               |               | 4.2                |                      | 02.2                        |



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#14-B

OBJECT

H.I. 906.40

AZIMUTH

STADIA

DIS-  
TANCE

INTERVALS OR VER. ANGLE

Up+ No. of Int.  
Down- or Angle

Rod  
Equiv.

READ.  
ON  
ROD

DIFF.  
OF  
ELEV.

ELEVATION  
ABOVE  
DATUM

Hill

138°-45' 6.90

+ 1°-00' 12.0

5.0

+7.0

913.4

G.E.

138°-30' 6.10

4.5

01.9

Hill E. cor N. S. & W.

130°-40' 7.54

+ 1°-05' 14.2

5.0

+9.2

15.6

G.E.

126°-30' 6.28

4.7

01.7

"

120°-15' 6.60

3.8

02.6

#15

H.I. 4.37

904.46

904.46

904.46

A + Δ 15

900.09

Δ 14

241°-36' 8.51

6.51

897.95

Δ 16

355°-27' 7.85

6.59

897.87

Δ 15 A

333°-21' 9.18

0.88

903.58

G.E.

219°-00' 3.40

9.0

895.5

"

203°-00' 3.24

4.4

900.1

Top Hill

172°-00' 2.70

+ 2°-30' 11.8

5.0

+6.8

11.3

G.E.

156°-40' 1.05

4.0

00.5

"

327°-50' 7.40

4.0

00.5

"

197°-20' 9.5

4.2

00.3

Page 107 Transit..... Obs..... Line..... Ditch 4  
 Date 11-1-44 Rec.....

| #15<br>OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|----------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|                    |          |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|                    |          |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
| 2 G.E.             | 328°-00' | 6.68   | —             |                         |             |        | 2.0                |                      | 902.5                       |
| 1 "                | 237°-00' | 1.25   | —             |                         |             |        | 9.5                |                      | 895.0                       |
| 2 "                | 327°-45' | 6.28   | —             |                         |             |        | 7.9                |                      | 96.6                        |
| 1 "                | 227°-30' | 2.32   |               |                         |             |        | 10.7               |                      | 93.8                        |
| 2 "                | 328°-30' | 5.52   | —             |                         |             |        | 10.0               |                      | 94.5                        |
| 1 Top Ditch        | 235°-50' | 2.76   |               |                         |             |        | 9.3                |                      | 95.2                        |
| 1 " Angle in Ditch | 236°-50' | 2.77   | —             |                         |             |        | 11.1               |                      | 93.4                        |
| 1 Top "            | 238°-45' | 2.75   | —             |                         |             |        | 7.6                |                      | 96.9                        |
| 2 G.E.             | 325°-40' | 5.08   | —             | —                       | 1/2         | 2.54   | 7.1                | -9.6                 | 94.9                        |
| 2 "                | 324°-10' | 4.57   | —             |                         |             |        | 6.0                |                      | 98.5                        |
| 1 Top Ditch        | 251°-00' | 2.08   |               |                         |             |        | 8.3                |                      | 96.2                        |
| 1 " "              | 249°-50' | 2.00   | —             |                         |             |        | 11.1               |                      | 93.4                        |
| 1 Top "            | 249°-10' | 1.96   |               |                         |             |        | 8.3                |                      | 96.2                        |
| 2 G.E.             | 321°-00' | 3.65   | —             |                         |             |        | 6.2                |                      | 98.3                        |
| 1 " Ditch          | 272°-10' | 1.70   | —             |                         |             |        | 11.1               |                      | 93.4                        |
| 1 Top "            | 272°-00' | 1.75   |               |                         |             |        | 8.7                |                      | 95.8                        |
| 1 G.E.             | 272°-10' | 1.92   |               |                         |             |        | 9.1                |                      | 95.4                        |

Page 108 Transit.....Obs.....Line.....Date 11-1-44.....Rec.....

| #15            | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|----------------|--------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                |        |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|                |        |          |        |               |                         |                         |                    |                      |                             |
| ~ G.E.         |        | 304°-40' | 2.50   | —             |                         |                         | 63                 |                      | 898.2                       |
| ' Top Ditch    |        | 272°-15' | 1.60   |               |                         |                         | 8.4                |                      | 96.1                        |
| ~ G.E.         |        | 317°-45' | 2.27   |               |                         |                         | 9.5                |                      | 95.0                        |
| ' $\Phi$ Ditch |        | 282°-10' | 1.60   | —             |                         |                         | 11.1               |                      | 93.4                        |
| ~ G.E.         |        | 328°-50' | 2.40   |               |                         |                         | 10.9               |                      | 93.6                        |
| ' $\Phi$ Ditch |        | 301°-00' | 1.50   | —             |                         |                         | 11.3               |                      | 93.2                        |
| ' Top "        |        | 306°-15' | 1.44   |               |                         |                         | 7.1                |                      | 97.4                        |
| ' " "          |        | 301°-30' | 1.58   |               |                         |                         | 7.3                |                      | 97.2                        |
| ~ G.E.         |        | 331°-40' | 3.11   |               |                         |                         | 10.4               |                      | 94.1                        |
| ~ "            |        | 327°-50' | 4.14   |               |                         |                         | 10.0               |                      | 94.5                        |
| ' Top Ditch    |        | 332°-20' | 1.90   |               |                         |                         | 9.9                |                      | 94.6                        |
| ' $\Phi$ "     |        | 333°-20' | 1.84   | —             |                         |                         | 11.3               |                      | 93.2                        |
| ' Top "        |        | 334°-50' | 1.80   |               |                         |                         | 10.2               |                      | 94.3                        |
| ~ G.E.         |        | 331°-00' | 5.10   |               |                         |                         | 10.5               |                      | 94.0                        |
| ~ "            |        | 331°-45' | 5.72   |               |                         |                         | 8.5                |                      | 96.0                        |
| ' Top Ditch    |        | 350°-15' | 2.75   |               |                         |                         | 11.7               |                      | 92.8                        |
| ' $\Phi$ "     |        | 349°-45' | 2.77   | —             |                         |                         | 12.0               |                      | 92.5                        |



Page. 109 Transit. .... Obs. Ditch 4 Line. ....  
 Date. 11-1-44 Rec. ....

| #15 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |               |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|---------------|--------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+                     | No. of Int.   | Rod    |                    |                      |                             |
|     |                    |          |        |               | Down-                   | or Angle      | Equiv. |                    |                      |                             |
|     | <u>H.L. 704.46</u> |          |        |               |                         |               |        |                    |                      |                             |
| '   | Top Ditch          | 349°-20' | 2.77   |               |                         |               |        | 11.6               |                      | 892.9                       |
| ~   | G.E.               | 332°-00' | 6.30   |               |                         |               |        | 6.6                |                      | 97.9                        |
| ~   | "                  | 336°-50' | 6.30   |               |                         |               |        | 10.5               |                      | 94.0                        |
| '   | Top Ditch          | 358°-50' | 4.10   | —             |                         |               |        | 12.2               |                      | 92.3                        |
| '   | Top "              | 359°-40' | 4.10   |               |                         |               |        | 11.6               |                      | 92.9                        |
| '   | " "                | 358°-10' | 4.11   |               |                         |               |        | 11.3               |                      | 93.2                        |
| ~   | Draw               | 336°-20' | 7.08   |               |                         |               |        | 11.7               |                      | 92.8                        |
| "   | G.E.               | 331°-30' | 7.30   |               |                         |               |        | 9.1                |                      | 95.4                        |
| "   | "                  | 335°-20' | 7.85   |               |                         |               |        | 11.2               |                      | 93.3                        |
| '   | Hill               | 348°-50' | 6.70   |               | +                       | $\frac{1}{2}$ | 3.3    | 2.1                | +1.2                 | 905.7                       |
| ~   | G.E.               | 334°-15' | 8.35   |               |                         |               |        | 9.2                |                      | 895.3                       |
| '   | Hill               | 347°-40' | 7.65   |               | +                       | $\frac{1}{2}$ | 3.8    | 0.0                | +3.8                 | 908.3                       |
| ~   | G.E.               | 339°-10' | 8.20   |               |                         |               |        | 8.4                |                      | 896.1                       |
| '   | Hill               | 346°-00' | 8.32   |               | +                       | 1             | 8.3    | 1.3                | +7.0                 | 911.5                       |
| ~   | G.E.               | 340°-40' | 8.28   |               |                         |               |        | 5.9                |                      | 898.6                       |
| '   | "                  | 343°-30' | 7.40   |               |                         |               |        | 6.1                |                      | 98.4                        |
| ~   | "                  | 339°-50' | 7.30   |               |                         |               |        | 9.9                |                      | 94.6                        |

Page 110 Transit ..... Obs. .... Line .....  
 Date 11-1-44 Rec. ....

| #15                            | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------------|--------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                |        |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| ~ G.E.                         |        | 339°-40' | 6.28   |               |                         |                               |               | 8.8                |                      | 895.7                       |
| 1 "                            |        | 348°-30' | 6.50   |               |                         |                               |               | 3.1                |                      | 901.4                       |
| ~ "                            |        | 341°-50' | 5.90   |               |                         |                               |               | 10.2               |                      | 894.3                       |
| 1 "                            |        | 349°-00' | 6.05   |               |                         |                               |               | 9.3                |                      | 95.2                        |
| ~ "                            |        | 342°-10' | 5.16   |               | - 1/2                   |                               | 2.6           | 9.8                | -12.4                | 92.1                        |
| 1 "                            |        | 350°-20' | 5.32   |               |                         |                               |               | 12.0               |                      | 92.5                        |
| ~ " SWP                        |        | 341°-00' | 4.40   |               | - 1/2                   |                               | 2.2           | 10.5               | -12.7                | 91.8                        |
| 1 " "                          |        | 349°-30' | 4.28   |               | - 1/2                   |                               | 2.1           | 10.4               | -12.5                | 92.0                        |
| ~ " "                          |        | 341°-30' | 3.72   |               | - 1/2                   |                               | 1.9           | 10.6               | -12.5                | 92.0                        |
| ~ " "                          |        | 343°-00' | 3.10   |               |                         |                               |               | 12.3               |                      | 92.2                        |
| 1 " "                          |        | 351°-30' | 3.45   |               |                         |                               |               | 12.0               |                      | 92.5                        |
| ~ " "                          |        | 340°-00' | 2.55   |               |                         |                               |               | 11.0               |                      | 93.5                        |
| ~ G.E.                         |        | 348°-30' | 1.96   |               |                         |                               |               | 12.0               |                      | 92.5                        |
| 1 " "                          |        | 358°-30' | 3.20   |               |                         |                               |               | 11.3               |                      | 93.2                        |
| ~ Fence cor E & W. Along Ditch |        | 320°-40' | 1.50   | -             |                         |                               |               | 8.7                |                      | 95.8                        |
| ~ E Ditch                      |        | 321°-00' | 1.59   | ✓             |                         |                               |               | 11.1               |                      | 93.4                        |
| ~ Top "                        |        | 321°-00' | 1.68   |               |                         |                               |               | 9.1                |                      | 95.4                        |

Page 111 Transit Ditch 4 Obs. Line  
 Date 11-1-44 Rec.

| #15 | OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |                | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-------------|----------|--------|---------------|-------------------------|-------------|----------------|--------------------|----------------------|-----------------------------|
|     |             |          |        |               | Up+                     | No. of Int. | Angle<br>Down- |                    |                      |                             |
|     | H.I. 904.46 |          |        |               |                         |             |                |                    |                      |                             |
| 1   | Draw        | 6°-00'   | 1.60   |               |                         |             |                | 10.5               |                      | 894.0                       |
| 2   | F&W Fence   | 346°-50' | 1.19   | ✓             |                         |             |                | 10.6               |                      | 93.9                        |
| 1   | " " & Draw  | 22°-30'  | 1.25   | ✓             |                         |             |                | 9.0                |                      | 95.5                        |
| 2   | G.E.        | 314°-00' | 80     |               |                         |             |                | 8.7                |                      | 95.8                        |
| 2   | "           | 269°-40' | 1.09   |               |                         |             |                | 7.2                |                      | 97.3                        |
| 1   | Draw        | 65°-00'  | 1.53   |               |                         |             |                | 6.5                |                      | 98.0                        |
| 2   | G.E.        | 199°-20' | 1.60   |               |                         |             |                | 3.6                |                      | 900.9                       |
| 1   | Draw        | 85°-00'  | 1.98   | ✓             |                         |             |                | 5.3                |                      | 899.2                       |
| 2   | G.E.        | 157°-40' | 56     |               |                         |             |                | 2.7                |                      | 901.8                       |
| 1   | Draw        | 91°-00'  | 2.97   | ✓             |                         |             |                | 2.9                |                      | 01.6                        |
| 2   | Hill        | 125°-00' | 1.50   |               | +                       | 4°-30'      | 11.7           | 5.0                | +6.7                 | 11.2                        |
| 2   | G.E.        | 124°-00' | .70    |               |                         |             |                | 3.9                |                      | 00.6                        |
| 1   | "           | 85°-10'  | 2.92   |               |                         |             |                | 0.5                |                      | 04.0                        |
| 1   | "           | 77°-10'  | 2.56   |               |                         |             |                | 1.7                |                      | 02.8                        |
| 2   | Ridge       | 96°-30'  | 1.25   |               | +                       | 1/2         | 0.6            | 0.0                | +0.6                 | 05.1                        |
| 1   | G.E.        | 65°-15'  | 2.10   |               |                         |             |                | 0.9                |                      | 03.6                        |
| 2   | "           | 71°-00'  | 1.20   |               |                         |             |                | 4.8                |                      | 899.7                       |



Page 112 Transit.....Obs.....Line.....

Date 11-1-44 Rec.....

| #15  | OBJECT      | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------|-------------|------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|      |             |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|      |             |                  |        |               |                         |                         |                    |                      |                             |
|      | G.E.        | 53°-00'          | 73     |               |                         |                         | 5.0                |                      | 899.5                       |
|      | Fr W. Fence | 53°-20'          | 1.90   |               |                         |                         | 4.7                |                      | 99.8                        |
|      | G.E.        | 12°-00'          | 97     |               |                         |                         | 7.9                |                      | 96.6                        |
|      | "           | 14°-40'          | 50     |               |                         |                         | 7.0                |                      | 97.5                        |
|      | "           | 301°-00'         | 35     |               |                         |                         | 5.3                |                      | 99.2                        |
|      |             | 908.06<br>908.04 |        |               |                         |                         |                    |                      |                             |
|      | H.I. 4.48   |                  |        |               |                         |                         |                    |                      |                             |
| #15A | A+ Δ 15A    |                  |        |               |                         |                         |                    |                      | 903.58                      |
|      | Δ 15        | 153°-21'         | 9.18   |               |                         |                         | 7.95               |                      | 900.09                      |
|      | G.E.        | 167°-20'         | 3.80   | -             | -                       | 1/2                     | 5.7                | 9.2                  | -14.9 893.2                 |
|      | "           | 172°-00'         | 4.45   | -             | -                       | 1/2                     | 2.2                | 10.5                 | -12.7 95.4                  |
|      | Hill        | 181°-00'         | 4.86   | -             |                         |                         | 2.1                |                      | 906.0                       |
|      | G.E.        | 79°-10'          | 4.36   |               |                         |                         | 9.9                |                      | 898.2                       |
|      | Draw        | 182°-10'         | 3.14   | -             | -                       | 1/2                     | 1.6                | 10.9                 | -12.5 95.6                  |
|      | G.E.        | 174°-40'         | 3.10   | -             | -                       | 1/2                     | 1.5                | 11.0                 | -12.5 95.6                  |
|      | "           | 189°-00'         | 3.28   |               |                         |                         | 8.5                |                      | 99.6                        |
|      | Top Hill    | 195°-10'         | 3.80   |               | +                       | 1                       | 7.6                | 0.0                  | +7.6 915.7                  |

Page 113 Transit.....Obs.....Line Ditch 4  
 Date 11-1-44 Rec.....

| #15-A | OBJECT                  | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------|-------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|       |                         |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
|       | <u>H.I. 908.05</u>      |          |        |               |                         |                         |                    |                      |                             |
| ~     | Draw                    | 201°-30' | 2.64   | ✓             |                         |                         | 8.6                |                      | 899.5                       |
| ~     | G.E                     | 200°-00' | 1.98   |               |                         |                         | 5.3                |                      | 02.8                        |
| ~     | Ridge                   | 191°-40' | 1.30   |               | +                       | $\frac{1}{2}$           | 0.6                | -0.4                 | 907.7                       |
| '     | "                       | 37°-30'  | 1.00   |               | +                       | 2                       | 2.0                | +1.0                 | 909.1                       |
| ~     | "                       | 235°-30' | 1.30   |               |                         |                         | 1.2                |                      | 06.9                        |
| ~     | Top S. Ditch            | 256°-10' | 1.44   |               |                         |                         | 1.2                |                      | 06.9                        |
| ~     | " "                     | 258°-30' | 1.47   | —             |                         |                         | 6.1                |                      | 02.0                        |
| ~     | Top " "                 | 259°-40' | 1.50   |               |                         |                         | 1.1                |                      | 07.0                        |
| '     | Ridge                   | 349°-30' | 2.00   |               | +                       | 3°-15'                  | 11.3               | +6.3                 | 14.4                        |
| ~     | "                       | 282°-50' | 2.26   |               | +                       | $\frac{1}{2}$           | 1.1                | +0.2                 | 08.3                        |
| '     | Hill                    | 335°-20' | 3.50   |               | +                       | 3°-25'                  | 20.8               | +15.8                | 23.9                        |
| ~     | Ridge                   | 291°-00' | 2.70   |               | +                       | 2°-25'                  | 11.4               | +6.4                 | 14.5                        |
| '     | Hill                    | 312°-20' | 3.70   |               | +                       | 1°-55'                  | 12.4               | +7.4                 | 15.5                        |
| ~     | Draw                    | 311°-00' | 2.00   |               |                         |                         | 5.0                |                      | 03.1                        |
| '     | Ridge N+S Fence         | 279°-00' | 3.90   | —             | +                       | 1°-35'                  | 10.8               | +5.8                 | 13.9                        |
| ~     | Draw                    | 300°-00' | 1.45   |               |                         |                         | 3.9                |                      | 04.2                        |
| '     | S. Ditch & N.O.S. FENCE | 260°-45' | 3.95   | —             |                         |                         | 4.2                |                      | 03.9                        |

Page 114 Transit.....Obs.....Line.....  
 Date 11-1-44 Rec.....

#15-A

OBJECT

AZIMUTH

STADIA

DIS-  
TANCE

INTERVALS OR VER. ANGLE

Up+ No. of Int.  
Down- or Angle

Rod  
Equiv.

READ.  
ON  
ROD

DIFF.  
OF  
ELEV.

ELEVATION  
ABOVE  
DATUM

|             |          |      |   |                 |      |      |      |       |
|-------------|----------|------|---|-----------------|------|------|------|-------|
| ' Top Ditch | 260°-20' | 3.98 |   |                 |      | 3.2  |      | 904.9 |
| ' " "       | 261°-15' | 3.92 |   |                 |      | 3.5  |      | 04.6  |
| ~ Draw      | 286°-00' | 1.11 |   |                 |      | 8.0  |      | 00.1  |
| ' E's Ditch | 259°-00' | 3.45 | - |                 |      | 4.8  |      | 03.3  |
| ~ Draw      | 229°-00' | 57   |   |                 |      | 10.7 |      | 897.4 |
| ~ " "       | 176°-45' | 53   |   |                 |      | 10.2 |      | 97.9  |
| ~ G.E       | 241°-30' | 1.70 |   |                 |      | 3.7  |      | 904.4 |
| ~ " "       | 237°-30' | 2.07 |   |                 |      | 1.8  |      | 06.3  |
| ' E's Ditch | 263°-00' | 4.65 | - |                 |      | 3.7  |      | 04.4  |
| ~ " "       | 255°-10' | 2.00 | - |                 |      | 6.0  |      | 02.1  |
| ' G.E       | 263°-40' | 5.90 |   |                 |      | 2.4  |      | 05.7  |
| ' E's Ditch | 267°-30' | 6.00 | - | + $\frac{1}{2}$ | 3.00 | 3.9  | -0.9 | 07.2  |
| ~ G.E       | 237°-20' | 3.07 |   |                 |      | 5.5  |      | 02.6  |
| ' " "       | 270°-00' | 7.85 |   | + $\frac{1}{2}$ | 3.9  | 3.3  | +0.6 | 08.7  |
| ~ " P.Hole  | 257°-15' | 2.87 |   |                 |      | 6.5  |      | 01.6  |
| ' G.E       | 264°-20' | 7.50 |   | + $\frac{1}{2}$ | 3.7  | 2.0  | +1.7 | 09.8  |
| ~ " "       | 248°-15' | 3.40 |   |                 |      | 4.6  |      | 03.5  |



Page 115 Transit..... Obs..... Line Ditch 4.  
 Date 11-1-44 Rec.....

#15-A

| OBJECT      | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|             |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| Hill        | 247°-30' | 4.30   |               | +                       | 1                       | 4.3                | 0.2                  | +4.1 912.2                  |
| "           | 252°-15' | 5.30   |               | +                       | 1 1/2                   | 7.9                | 2.3                  | +5.6 13.7                   |
| G.E.        | 269°-30' | 4.63   |               | +                       | 1                       | 4.6                | 7.5                  | -2.9 05.2                   |
| "           | 271°-30' | 5.30   |               | +                       | 1                       | 5.3                | 4.9                  | +0.4 08.5                   |
| N & S Fence | 291°-50' | 4.12   |               | +                       | 2°-25'                  | 17.4               | 5.0                  | +12.4 20.5                  |
| G.E.        | 269°-20' | 7.00   |               | +                       | 1                       | 7.0                | 6.5                  | +0.5 08.6                   |
| "           | 266°-30' | 5.84   |               | +                       | 1/2                     | 2.9                | 4.3                  | -1.4 06.7                   |
| "           | 262°-50' | 5.86   |               | +                       | 1/2                     | 2.9                | 3.9                  | -1.0 07.1                   |
| "           | 257°-45' | 5.30   |               | +                       | 1/2                     | 2.6                | 1.0                  | +1.6 09.7                   |
| "           | 254°-40' | 4.10   |               | +                       | 1/2                     | 2.0                | 3.8                  | -1.8 06.3                   |

#16

|           |                           |      |  |   |        |      |      |                  |
|-----------|---------------------------|------|--|---|--------|------|------|------------------|
| H.1 4.59  | 902.46<br>902.42 } 902.44 |      |  |   |        |      |      |                  |
| A + Δ 16  |                           |      |  |   |        |      |      | 897.85<br>897.87 |
| Δ 15      | 175°-27'                  | 7.85 |  |   |        |      | 2.33 | 900.09           |
| Δ 17      | 319°-50'                  | 9.68 |  | + | 1/2    | 4.84 | 3.67 | +4.17 903.61     |
| Ridge     | 159°-30'                  | 6.15 |  | + | 0°-55' | 9.8  | 5.0  | +4.8 907.2       |
| Hill Draw | 158°-00'                  | 6.81 |  | + | 1°-20' | 15.8 | 10.0 | +5.8 08.2        |

Page 116 Transit.....Obs.....Line.....  
 Date 11-1-44 Rec.....

| #16<br>OBJECT<br><u>H.I. 902.44</u> | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------------------------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                                     |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             |
| Draw                                | 152°-10' | 6.35   |               | +                       | $\frac{1}{2}$           | 3.2                | 1.6                  | 904.0                       |
| ' Hill                              | 139°-30' | 6.90   |               | +                       | 1°-20'                  | 16.0               | 5.0                  | +11.0 13.4                  |
| ' G.E                               | 132°-20' | 5.65   |               | +                       | 1°-10'                  | 11.5               | 5.0                  | +6.5 08.9                   |
| ' Draw Toe Rd.                      | 117°-30' | 5.03   |               | +                       | $\frac{1}{2}$           | 2.5                | 0.0                  | +2.5 04.9                   |
| ' Hill                              | 97°-15'  | 3.34   |               | +                       | 2°-25'                  | 14.0               | 5.0                  | +9.0 11.4                   |
| ' W. Lane of Snelling.              | 85°-20'  | 5.20   | -             | +                       | 2°-05'                  | 18.9               | 5.0                  | +13.9 16.3                  |
| ' E " "                             | 84°-40'  | 5.85   | -             | +                       | 1°-55'                  | 19.5               | 6.0                  | +13.5 15.9                  |
| " G.E                               | 166°-10' | 2.40   |               |                         |                         |                    | 10.1                 | 892.3                       |
| " "                                 | 108°-20' | 2.17   |               |                         |                         |                    | 4.2                  | 98.2                        |
| " Top Ditch                         | 144°-50' | 2.83   |               |                         |                         |                    | 8.3                  | 94.1                        |
| " E "                               | 163°-20' | 2.84   | -             |                         |                         |                    | 10.0                 | 92.4                        |
| " Top "                             | 162°-00' | 2.85   |               |                         |                         |                    | 8.6                  | 93.8                        |
| ' Draw                              | 135°-40' | 3.90   |               |                         |                         |                    | 6.7                  | 95.7                        |
| " E Ditch                           | 153°-45' | 2.30   | -             |                         |                         |                    | 10.2                 | 92.2                        |
| " Top "                             | 152°-45' | 2.37   |               |                         |                         |                    | 9.0                  | 93.4                        |
| " " "                               | 154°-30' | 2.26   |               |                         |                         |                    | 8.9                  | 93.5                        |
| ' Draw                              | 126°-20' | 4.27   |               |                         |                         |                    | 3.7                  | 98.7                        |

Page. 117 Transit. .... Obs. .... Line. Ditch 4  
 Date. 11-1-44 Rec. ....

| #16 | OBJECT                          | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|---------------------------------|----------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                                 |          |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H. 1.902.44</u>              |          |        |               |                         |                               |               |                    |                      |                             |
| 2   | ∠ Angle in Ditch                | 142°-10' | 1.90   | -             |                         |                               |               | 10.2               |                      | 892.2                       |
| 2   | Top Ditch                       | 143°-00' | 1.85   |               |                         |                               |               | 9.2                |                      | 93.2                        |
| 2   | " "                             | 141°-20' | 1.95   |               |                         |                               |               | 9.7                |                      | 92.7                        |
| 1   | G.E.                            | 145°-30' | 5.00   |               |                         |                               |               | 2.6                |                      | 99.8                        |
| 1   | Draw ∠                          | 153°-30' | 6.73   |               | +                       | 0°-35'                        | 6.85          | 5.0                | +1.8                 | 904.2                       |
| 1   | Hill                            | 155°-10' | 7.30   |               | +                       | 0°-55'                        | 11.70         | 5.0                | +6.7                 | 09.1                        |
| 2   | ∠ Ditch                         | 124°-30' | 1.30   | -             |                         |                               |               | 9.8                |                      | 892.6                       |
| 2   | Top "                           | 125°-10' | 1.17   |               |                         |                               |               | 8.1                |                      | 94.3                        |
|     | " "                             | 123°-40' | 1.35   |               |                         |                               |               | 9.0                |                      | 93.4                        |
| 1   | G.E.                            | 168°-15' | 6.70   |               |                         |                               |               | 6.1                |                      | 96.3                        |
| 1   | "                               | 170°-00' | 5.55   |               |                         |                               |               | 6.9                |                      | 95.5                        |
| 2   | Flow Line outlet 24" C.M. culv. | 107°-10' | 92     | -             |                         |                               |               | 11.0               |                      | 91.4                        |
| 2   | ∠ Ditch (Filled sand)           | 107°-10' | 92     | -             |                         |                               |               | 9.6                |                      | 92.8                        |
| 2   | " " over inlet culv.            | 115°-00' | 1.05   | -             |                         |                               |               | 8.5                |                      | 93.9                        |
| 2   | ∠ Drive                         | 111°-15' | .97    | -             |                         |                               |               | 8.5                |                      | 93.9                        |
| 1   | G.E.                            | 160°-40' | 4.40   |               |                         |                               |               | 6.9                |                      | 95.5                        |
| 2   | Top Ditch                       | 105°-50' | 86     |               |                         |                               |               | 7.4                |                      | 95.0                        |



Page. 118 Transit. .... Obs. .... Line. ....Date. 11-1-44 .... Rec. ....

| #16 | OBJECT     | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------|----------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|     |            |          |        |               | Up+                     | No. of Int. | Ver. Angle    |                    |                      |                             |
|     | H.I 902.44 |          |        |               | Down-                   | or Angle    | Rod<br>Equiv. |                    |                      |                             |
| ~   | Top Ditch  | 97°-30'  | .89    | —             |                         |             |               | 8.1                |                      | 894.3                       |
| '   | G.E.       | 153°-50' | 5.30   | —             |                         |             |               | 4.5                |                      | 97.9                        |
| ~   | E Ditch    | 62°-45'  | 63     | —             |                         |             |               | 9.1                |                      | 93.3                        |
| ~   | Top "      | 60°-45'  | 68     | —             |                         |             |               | 8.8                |                      | 93.6                        |
| ~   | " "        | 62°-30'  | 55     | —             |                         |             |               | 8.1                |                      | 94.3                        |
| '   | G.E.       | 149°-50' | 4.03   | —             |                         |             |               | 8.2                |                      | 94.2                        |
| ~   | "          | 138°-00' | 77     | —             |                         |             |               | 6.9                |                      | 95.5                        |
| 2   | "          | 175°-30' | 1.26   | —             |                         |             |               | 3.7                |                      | 98.7                        |
| '   | "          | 151°-00' | 4.90   | —             |                         |             |               | 5.1                |                      | 97.3                        |
| ~   | "          | 164°-00' | 1.64   | —             |                         |             |               | 7.0                |                      | 95.4                        |
| '   | "          | 146°-40' | 3.95   | —             |                         |             |               | 7.9                |                      | 94.5                        |
| ~   | "          | 121°-30' | 1.75   | —             |                         |             |               | 8.1                |                      | 94.3                        |
| '   | "          | 142°-00' | 2.96   | —             |                         |             |               | 7.2                |                      | 95.2                        |
| ~   | "          | 117°-30' | 2.14   | —             |                         |             |               | 6.2                |                      | 96.2                        |
| ~   | " SWP      | 143°-10' | 2.30   |               |                         |             |               | 9.8                |                      | 92.6                        |
| ~   | G.E. "     | 133°-00' | 2.10   |               |                         |             |               | 9.1                |                      | 93.3                        |
| '   | "          | 149°-00' | 2.70   |               |                         |             |               | 7.9                |                      | 94.5                        |

Page 119 Transit.....Obs.....Line.....Ditch 4  
 Date 11-1-44 Rec.....

| #16 | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------|----------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|     |        |          |        |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|     |        |          |        |               | Down-                   | or Angle    |               |                    |                      |                             |
| 2   | G.E.   | 130°-30' | 2.85   |               |                         |             |               | 6.8                |                      | 895.6                       |
| 2   | "      | 156°-00' | 2.93   |               |                         |             |               | 7.3                |                      | 95.1                        |
| 1   | " SWP. | 163°-10' | 3.45   |               |                         |             |               | 8.9                |                      | 93.5                        |
| 2   | "      | 155°-00' | 3.85   |               |                         |             |               | 8.8                |                      | 93.6                        |
| 1   | " SWP. | 164°-40' | 3.80   |               |                         |             |               | 9.6                |                      | 92.8                        |
| 2   | "      | 159°-00' | 4.17   |               |                         |             |               | 8.0                |                      | 94.4                        |
| 2   | "      | 165°-20' | 4.30   |               |                         |             |               | 8.8                |                      | 93.6                        |
| 2   | "      | 170°-10' | 4.43   |               |                         |             |               | 8.9                |                      | 93.5                        |
| 2   | "      | 66°-00'  | 2.00   |               |                         |             |               | 1.4                |                      | 901.0                       |
| 1   | Hill   | 68°-30'  | 2.90   |               | +                       | 2°-50'      | 19.3          | 5.0                | +14.3                | 16.7                        |
| 2   | G.E.   | 41°-10'  | 2.34   |               | +                       | 1/2         | 1.2           | 1.0                | +0.2                 | 02.6                        |
| 1   | Hill   | 40°-00'  | 3.65   |               | +                       | 2°-35'      | 16.4          | 5.0                | +11.4                | 13.8                        |
| 1   | "      | 25°-00'  | 4.65   |               | +                       | 2°-55'      | 23.6          | 5.0                | +18.6                | 21.0                        |
| 2   | G.E.   | 15°-00'  | 2.82   |               | +                       | 2           | 5.64          | 1.0                | +4.6                 | 07.0                        |
| 1   | Hill   | 8°-30'   | 4.90   |               | +                       | 2°-40'      | 22.8          | 5.0                | +17.8                | 20.2                        |
| 2   | G.E.   | 351°-30' | 3.32   |               | +                       | 1 1/2       | 5.0           | 6.8                | +4.2                 | 06.6                        |
|     | Hill   | 359°-30' | 5.90   |               | +                       | 2°-20'      | 24.0          | 5.0                | +19.0                | 21.4                        |

Page 120 Transit.....Obs.....Line.....Date 11-1-44.....Rec.....

| #16<br>OBJECT                         | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                       |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| <u>H.I. 902.44</u>                    |          |        |               |                         |                         |               |                    |                      |                             |
| GE                                    | 341°-10' | 4.50   | -             | +                       | 1°-12'                  | 9.4           | 5.0                | +4.4                 | 906.8                       |
| Mill                                  | 343°-20' | 6.30   | -             | +                       | 1°-50'                  | 20.2          | 5.0                | +15.2                | 17.6                        |
| GE                                    | 334°-40' | 5.87   | -             | +                       | 0°-50'                  | 8.5           | 5.0                | +3.5                 | 05.9                        |
| F. Cor E & W & S                      | 328°-10' | 7.11   | -             |                         |                         |               | 2.0                |                      | 00.4                        |
| Nov. 2-44 At $\Delta$ #16 H.I. 902.44 |          |        |               |                         |                         |               |                    |                      |                             |
| Fls W Line 18" C.M.C.M.               | 323°-10' | 7.34   | -             | -                       | 2                       | 3.67          | 8.75               | -12.62               | 889.82                      |
| Top Ditch                             | 322°-15' | 7.34   | -             |                         |                         |               | 7.9                |                      | 94.5                        |
| " "                                   | 324°-10' | 7.32   | -             |                         |                         |               | 7.0                |                      | 95.4                        |
| " "                                   | 327°-00' | 6.32   | -             |                         |                         |               | 5.3                |                      | 97.1                        |
| Angle in Ditch                        | 325°-20' | 6.35   | -             |                         |                         |               | 11.4               |                      | 91.0                        |
| Top Ditch                             | 324°-00' | 6.28   | -             |                         |                         |               | 4.8                |                      | 97.6                        |
| GE                                    | 329°-45' | 6.60   | -             |                         |                         |               | 2.0                |                      | 900.4                       |
| Angle in Ditch                        | 324°-00' | 5.55   | -             |                         |                         |               | 10.6               |                      | 891.8                       |
| Top " "                               | 326°-15' | 5.53   | -             |                         |                         |               | 3.2                |                      | 99.2                        |
| " "                                   | 322°-20' | 5.67   | -             |                         |                         |               | 4.5                |                      | 97.9                        |
| G.E.                                  | 326°-40' | 4.50   | -             |                         |                         |               | 4.9                |                      | 97.5                        |
| Angle in Ditch                        | 322°-40' | 4.52   | -             |                         |                         |               | 10.5               |                      | 91.9                        |



Page 121.....Transit.....Obs.....Line.....Ditch 4  
 Date 11-2-44.....Rec.....

| #16 . | OBJECT                   | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |             |        | READ. ON ROD | DIFF. OF ELEV. | ELEVATION ABOVE DATUM |
|-------|--------------------------|----------|--------|----------|-------------------------|-------------|--------|--------------|----------------|-----------------------|
|       |                          |          |        |          | Up+                     | No. of Int. | Rod    |              |                |                       |
|       |                          |          |        |          | Down-                   | or Angle    | Equiv. |              |                |                       |
|       | Top Ditch                | 324°-15' | 4.50   | —        |                         |             |        | 7.0          |                | 895.4                 |
|       | " "                      | 322°-40' | 4.52   | —        |                         |             |        | 8.1          |                | 94.3                  |
|       | Angle of Fence Top Ditch | 322°-55' | 3.93   | —        |                         |             |        | 7.1          |                | 95.3                  |
|       | ☼ Ditch                  | 321°-40' | 4.00   | —        |                         |             |        | 10.6         |                | 91.8                  |
|       | Top "                    | 320°-30' | 3.18   |          |                         |             |        | 7.2          |                | 95.2                  |
|       | ☼ Angle in Ditch         | 320°-00' | 3.33   | —        |                         |             |        | 10.7         |                | 91.7                  |
|       | GE                       | 330°-30' | 3.25   |          |                         |             |        | 6.5          |                | 96.9                  |
|       | Top Ditch                | 318°-30' | 3.33   |          |                         |             |        | 7.7          |                | 94.7                  |
|       | " "                      | 321°-30' | 3.31   |          |                         |             |        | 7.7          |                | 94.7                  |
|       | ☼ "                      | 324°-30' | 2.45   | —        |                         |             |        | 10.7         |                | 91.7                  |
|       | Top "                    | 322°-45' | 2.45   |          |                         |             |        | 7.8          |                | 94.6                  |
|       | " "                      | 325°-45' | 2.47   |          |                         |             |        | 8.2          |                | 94.2                  |
|       | ☼ "                      | 335°-00' | 1.53   | —        |                         |             |        | 10.3         |                | 92.1                  |
|       | Top "                    | 336°-30' | 1.55   |          |                         |             |        | 8.6          |                | 93.8                  |
|       | " "                      | 332°-00' | 1.51   |          |                         |             |        | 7.8          |                | 94.6                  |
|       | Fence Line               | 326°-20' | 2.90   | —        |                         |             |        | 7.4          |                | 94.5                  |
|       | ☼ Angle in Ditch         | 5°-00'   | 83     |          |                         |             |        | 9.4          |                | 93.0                  |

Page 122 Transit.....Obs.....Line.....

Date 11-2-41 Rec.....

| #16 | OBJECT                 | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                        |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | Top Ditch & Fence Line | 6°-45'   | 85     |               |                         |                         |               | 8.8                |                      | 893.6                       |
|     | "                      | 2°-20'   | 75     |               |                         |                         |               | 7.8                |                      | 94.6                        |
|     | G.E.                   | 339°-20' | 251    |               |                         |                         |               | 5.9                |                      | 96.5                        |
|     | "                      | 55°-00'  | 88     |               |                         |                         |               | 9.0                |                      | 93.4                        |
|     | "                      | 16°-00'  | 161    |               |                         |                         |               | 6.7                |                      | 95.7                        |
|     | "                      | 57°-00'  | 145    |               |                         |                         |               | 6.5                |                      | 95.9                        |
|     | "                      | 2°-20'   | 109    |               |                         |                         |               | 8.9                |                      | 93.5                        |
|     | Washout 12' W          | 85°-30'  | 280    |               | +                       | 1°-25'                  | 6.9           | 5.0                | +1.9                 | 904.3                       |
|     | G.E.                   | 194°-20' | 40     |               |                         |                         |               | 3.1                |                      | 899.3                       |
|     | "                      | 123°-10' | 40     |               |                         |                         |               | 7.0                |                      | 95.4                        |
|     | "                      | 306°-10' | 73     |               |                         |                         |               | 1.7                |                      | 900.7                       |
|     | "                      | 335°-00' | 71     |               |                         |                         |               | 7.2                |                      | 895.2                       |
|     | "                      | 306°-30' | 153    |               | +                       | 1/2                     | 0.7           | 2.9                | -2.2                 | 900.2                       |
|     | "                      | 324°-00' | 156    |               |                         |                         |               | 7.3                |                      | 895.1                       |
|     | "                      | 308°-10' | 235    |               |                         |                         |               | 2.3                |                      | 900.1                       |
|     | "                      | 317°-10' | 231    |               |                         |                         |               | 6.5                |                      | 895.9                       |
|     | Draw                   | 306°-30' | 334    |               | +                       | 1                       | 3.3           | 5.2                | -1.9                 | 900.5                       |

Page 123 Transit.....Obs.....Line.....Ditch 4  
 Date 11-2-44 Rec.....

| #16 | OBJECT  | AZIMUTH            | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|---------|--------------------|--------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |         |                    |        |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
|     |         | <u>H. 1.902.44</u> |        |               |                         |                               |               |                    |                      |                             |
|     | G.E.    | 313°-40'           | 3.20   |               |                         |                               |               | 6.7                |                      | 895.7                       |
|     | "       | 312°-00'           | 4.16   |               |                         |                               |               | 2.4                |                      | 900.0                       |
|     | "       | 316°-40'           | 3.95   |               |                         |                               |               | 6.3                |                      | 896.1                       |
|     | "       | 315°-10'           | 4.85   |               |                         |                               |               | 2.0                |                      | 900.4                       |
|     | "       | 319°-00'           | 4.73   |               |                         |                               |               | 6.9                |                      | 895.5                       |
|     | "       | 311°-20'           | 4.95   |               | +                       | 2                             | 9.90          | 1.7                | +8.2                 | 910.6                       |
|     | "       | 319°-20'           | 5.48   |               |                         |                               |               | 6.6                |                      | 895.8                       |
|     | "       | 316°-15'           | 5.65   |               |                         |                               |               | 1.2                |                      | 901.2                       |
|     | "       | 318°-50'           | 6.02   |               |                         |                               |               | 1.0                |                      | 01.4                        |
|     | "       | 319°-10'           | 6.76   |               | +                       | 1/2                           | 3.38          | 1.8                | +1.6                 | 04.0                        |
|     | "       | 322°-50'           | 6.20   |               |                         |                               |               | 6.4                |                      | 896.0                       |
|     | "       | 321°-30'           | 7.10   |               |                         |                               |               | 5.5                |                      | 96.9                        |
|     | Toe Rd. | 324°-00'           | 7.46   |               |                         |                               |               | 4.4                |                      | 98.0                        |
|     | " "     | 320°-15'           | 7.80   |               |                         |                               |               | 4.5                |                      | 97.9                        |



Page 124 Transit.....Obs.....Line.....Date 11-3-44 Rec.....

| #17<br>OBJECT      | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                    |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| H.I. = 4.49 GE-05  | 908.10<br>908.05 | 908.08 |               |                         |                         |               |                    |                      |                             |
| 4+ Δ 17            |                  |        |               |                         |                         |               |                    |                      | 903.61                      |
| Δ 16               | 139°-50'         | 9.68   |               |                         |                         |               | -10.20             |                      | 897.85                      |
| Δ 18               | 309°-55'         | 2.22   |               | -                       | 2                       | 4.24          | 11.78              | -16.22               | 891.86                      |
| Δ 17 A             | 109°-47'         | 1.05   |               |                         |                         |               | 11.53              |                      | 896.55                      |
| Toe Rd             | 64°-00'          | 1.30   |               |                         |                         |               | 5.1                |                      | 903.0                       |
| G.E                | 169°-30'         | 1.75   |               | +                       | $\frac{1}{2}$           | 0.9           | 0.8                | +0.1                 | 908.2                       |
| "                  | 166°-45'         | 2.70   |               | +                       | 2°-30'                  | 11.8          | 5.0                | +6.8                 | 14.9                        |
| Int. S. Rd & LYDIA | 236°-30'         | 1.87   | -             |                         |                         |               | 2.7                |                      | 05.4                        |
| Toe Rd             | 112°-30'         | 1.83   |               |                         |                         |               | 6.4                |                      | 01.7                        |
| Δ Rd LYDIA         | 128°-30'         | 1.66   | -             |                         |                         |               | 1.7                |                      | 06.4                        |
| Toe Rd             | 123°-20'         | 1.10   |               |                         |                         |               | 12.5               |                      | 895.6                       |
| Δ Rd               | 109°-30'         | 3.05   | -             | +                       | 1                       | 3.0           | 0.8                | +2.2                 | 910.3                       |
| Toe "              | 153°-00'         | 1.68   |               |                         |                         |               | 11.5               |                      | 896.6                       |
| " "                | 109°-20'         | 2.10   |               |                         |                         |               | 9.8                |                      | 903.3                       |
| Toe Rd             | 217°-40'         | 6.9    |               |                         |                         |               | 7.3                |                      | 00.8                        |
| " " Side           | 187°-30'         | 3.0    |               |                         |                         |               | 11.7               |                      | 896.4                       |

Page 125 Transit.....Obs.....Line.....Ditch 4  
 Date 11-2-44 Rec.....

| #17 | OBJECT             | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |                    |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | <u>H.I. 908.08</u> |          |        |               |                         |                         |               |                    |                      |                             |
|     | G.E                | 82°-30'  | 2.40   |               | +                       | 2°-45'                  | 11.5          | 5.0                | +6.5                 | 914.6                       |
|     | "                  | 175°-10' | 49     |               |                         |                         |               | 11.5               |                      | 896.6                       |
|     | "                  | 177°-00' | 170    |               | +                       | 3°-00'                  | 8.9           | 5.0                | +3.9                 | 912.0                       |
|     | Toe N. Rd          | 46°-00'  | 53     |               |                         |                         |               | 11.0               |                      | 897.1                       |
|     | G.E                | 55°-30'  | 1.40   |               | +                       | 2°-30'                  | 6.1           | 5.0                | +1.1                 | 909.2                       |
|     | "                  | 79°-30'  | 95     |               |                         |                         |               | 6.7                |                      | 01.4                        |
|     | "                  | 46°-00'  | 1.20   |               |                         |                         |               | 1.1                |                      | 07.0                        |
|     | Toe N. Rd          | 36°-45'  | 81     |               |                         |                         |               | 6.2                |                      | 01.9                        |
|     | Shld. N. Rd        | 14°-00'  | 83     |               |                         |                         |               | 4.1                |                      | 04.0                        |
|     | " "                | 29°-00'  | 70     |               |                         |                         |               | 3.9                |                      | 04.2                        |
|     | " "                | 227°-30' | 1.32   |               |                         |                         |               | 4.4                |                      | 03.7                        |
|     | " "                | 12°-50'  | 1.85   |               |                         |                         |               | 0.4                |                      | 07.7                        |
|     | " "                | 19°-00'  | 1.87   |               |                         |                         |               | 0.0                |                      | 08.1                        |
|     | ± "                | 13°-40'  | 2.47   | -             | +                       | 1                       | 2.47          | 0.0                | +2.5                 | 10.6                        |
|     | Toe Rd N.          | 245°-45' | 94     |               |                         |                         |               | 12.0               |                      | 896.1                       |
|     | " "                | 10°-00'  | 2.42   |               | +                       | 1 1/2                   | 3.6           | 2.3                | +1.3                 | 909.4                       |
|     | Shld. N. Rd        | 221°-10' | 1.02   |               |                         |                         |               | 4.6                |                      | 03.5                        |

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 Date. 11-2-44 Rec.....

| #17<br>OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|               |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E.          | 1°-15'   | 2.27   | ✓             |                         |                         |               | 2.2                |                      | 905.9                       |
| Shld Rd       | 221°-50' | 1.60   | ✓             |                         |                         |               | 3.5                |                      | 04.6                        |
| G.E.          | 348°-10' | 2.20   | ✓             |                         |                         |               | 5.3                |                      | 02.8                        |
| Shld Rd       | 168°-30' | .85    | ✓             |                         |                         |               | 4.0                |                      | 04.1                        |
| " "           | 168°-40' | 1.20   | ✓             |                         |                         |               | 3.4                |                      | 04.7                        |
| G.E.          | 349°-00' | 1.35   | ✓             |                         |                         |               | 8.2                |                      | 899.9                       |
| Toe N. Rd     | 11°-15'  | .95    | ✓             |                         |                         |               | 5.6                |                      | 902.5                       |
| Shld. Rd      | 118°-40' | 1.70   |               |                         |                         |               | 2.3                |                      | 05.8                        |
| " "           | 127°-30' | 1.92   |               |                         |                         |               | 2.3                |                      | 05.8                        |
| Toe N. Rd     | 348°-15' | .52    | ✓             |                         |                         |               | 12.1               |                      | 896.0                       |
| Shld Rd       | 109°-40' | 2.50   |               | +                       | $\frac{1}{2}$           | 1.2           | 1.3                | -0.1                 | 908.0                       |
| " "           | 114°-10' | 2.88   |               | +                       | $\frac{1}{2}$           | 1.4           | 1.2                | +0.2                 | 08.3                        |
| G.E.          | 335°-15' | 1.15   | ✓             | -                       | 1                       | 1.1           | 11.8               | -12.9                | 895.2                       |
| "             | 99°-30'  | 2.04   |               | +                       | $\frac{1}{2}$           | 1.0           | 2.0                | -1.0                 | 907.1                       |
| Shld. Rd. N   | 332°-00' | .22    | ✓             |                         |                         |               | 4.8                |                      | 03.3                        |
| " "           | 243°-00' | .51    |               |                         |                         |               | 5.1                |                      | 03.0                        |
| " "           | 219°-00' | .49    |               |                         |                         |               | 5.2                |                      | 02.9                        |



Page 127 Transit ..... Obs. ..... Line. Ditch 4  
 Date 11-2-44 Rec. ....

| OBJECT                                           | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------------------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                                  |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| #17<br>G.E.                                      | 257°-20' | 1.70   |               |                         |                         |               | 8.7                |                      | 899.4                       |
| "                                                | 273°-40' | 1.77   |               | -                       | 2                       | 3.54          | 4.8                | -1.3                 | 906.8                       |
| "                                                | 260°-10' | 2.00   |               |                         |                         |               | 4.0                |                      | 04.1                        |
| #17-A<br>H.I. 438                                | 900.93   | 900.93 |               |                         |                         |               |                    |                      |                             |
|                                                  | 900.74   |        |               |                         |                         |               |                    |                      |                             |
| A+Δ 17 A - G.E. - 0.50                           |          |        |               |                         |                         |               |                    |                      | 896.55                      |
| Δ 17                                             | 289°-47' | 1.05   |               | +                       | 3                       | +3.15         | 0.48               | +2.67                | 903.61                      |
| Flow Line 24" Conc. Culv.                        | 289°-20' | 72     | -             |                         |                         |               | 14.00              |                      | 886.93                      |
| Top Ditch                                        | 292°-45' | 68     |               |                         |                         |               | 9.4                |                      | 91.5                        |
| " "                                              | 281°-20' | 80     |               |                         |                         |               | 9.3                |                      | 91.6                        |
| " "                                              | 277°-15' | 51     | -             |                         |                         |               | 13.9               |                      | 87.8                        |
| Top "                                            | 271°-10' | 55     |               |                         |                         |               | 10.6               |                      | 90.3                        |
| " "                                              | 286°-30' | 51     |               |                         |                         |               | 8.7                |                      | 92.2                        |
| Flow Line 18" C.M. Culv. <sup>Ditch - 1/4"</sup> | 265°-30' | 31     | -             |                         |                         |               | 12.85              |                      | 888.08                      |
| Top Ditch                                        | 274°-45' | 25     |               |                         |                         |               | 7.9                |                      | 93.0                        |
| " "                                              | 260°-00' | 36     |               |                         |                         |               | 10.8               |                      | 90.1                        |
| Toe Rd.                                          | 238°-00' | 30     |               |                         |                         |               | 8.2                |                      | 92.7                        |
| " N. Rd.                                         | 295°-45' | 84     |               |                         |                         |               | 10.0               |                      | 90.9                        |

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Date 11-2-14 Rec.....

| * 17-A | OBJECT                 | AZIMUTH          | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------|------------------------|------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|        |                        |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|        | H.I. 900.93            |                  |        |               |                         |                         |               |                    |                      |                             |
|        | Toe N Rd.              | 285°-30'         | 82     |               |                         |                         |               | 10.6               |                      | 890.3                       |
|        | " "                    | 269°-00'         | 1.08   |               |                         |                         |               | 4.4                |                      | 96.5                        |
| #18    | H.I. = 438             | 896.24<br>896.26 | 896.25 |               |                         |                         |               |                    |                      | 891.87<br><del>891.86</del> |
|        | A + Δ 18               |                  |        |               |                         |                         |               |                    |                      |                             |
|        | Δ 17                   | 129°-55'         | 2.22   |               | +                       | 4                       | +8.88         | 1.53               | +7.35                | 903.61                      |
|        | Δ 19                   | 346°-34'         | 1.92   |               |                         |                         |               | 2.11               |                      | 894.14                      |
|        | Flow Line 24" Conc C/V | 128°-10'         | 1.70   | -             |                         |                         |               | 10.20              |                      | 886.05                      |
|        | Top Ditch              | 129°-30'         | 1.71   |               |                         |                         |               | 7.1                |                      | 89.1                        |
|        | " "                    | 127°-10'         | 1.72   |               |                         |                         |               | 7.0                |                      | 89.2                        |
|        | G.E.                   | 122°-10'         | 1.43   |               |                         |                         |               | 3.8                |                      | 92.4                        |
|        | Top Ditch              | 130°-30'         | 1.13   | -             |                         |                         |               | 10.2               |                      | 86.0                        |
|        | Top "                  | 127°-00'         | 1.15   |               |                         |                         |               | 8.2                |                      | 88.0                        |
|        | " "                    | 134°-10'         | 1.11   |               |                         |                         |               | 7.4                |                      | 88.8                        |
|        | G.E.                   | 127°-45'         | 1.18   |               |                         |                         |               | 5.1                |                      | 91.1                        |
|        | " "                    | 150°-15'         | 1.35   |               |                         |                         |               | 4.4                |                      | 91.8                        |
|        | Top Ditch              | 130°-20'         | 90     | -             |                         |                         |               | 9.8                |                      | 86.4                        |

Page 129 Transit.....Obs.....Line..... Ditch 4  
 Date 11-2-44 Rec.....

| #18<br>OBJECT      | AZIMUTH         | STADIA     | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|-----------------|------------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                    |                 |            |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| <u>H.I. 896.25</u> |                 |            |               |                         |                               |               |                    |                      |                             |
| <u>± Ditch</u>     | <u>122°-15'</u> | <u>67</u>  | <u>—</u>      |                         |                               |               | <u>10.9</u>        |                      | <u>885.3</u>                |
| <u>Top "</u>       | <u>115°-45'</u> | <u>71</u>  |               |                         |                               |               | <u>7.4</u>         |                      | <u>88.8</u>                 |
| <u>" "</u>         | <u>127°-00'</u> | <u>66</u>  |               |                         |                               |               | <u>9.0</u>         |                      | <u>87.2</u>                 |
| <u>G.E.</u>        | <u>92°-30'</u>  | <u>92</u>  |               |                         |                               |               | <u>2.8</u>         |                      | <u>93.4</u>                 |
| <u>"</u>           | <u>177°-45'</u> | <u>95</u>  |               | <u>+</u>                | <u>4°-00'</u>                 | <u>6.6</u>    | <u>5.0</u>         | <u>+1.6</u>          | <u>97.8</u>                 |
| <u>"</u>           | <u>169°-00'</u> | <u>70</u>  |               |                         |                               |               | <u>4.0</u>         |                      | <u>92.2</u>                 |
| <u>"</u>           | <u>172°-00'</u> | <u>150</u> |               | <u>+</u>                | <u>4°-45'</u>                 | <u>72.4</u>   | <u>5.0</u>         | <u>+7.4</u>          | <u>903.6</u>                |
| <u>± Ditch</u>     | <u>101°-45'</u> | <u>36</u>  | <u>—</u>      |                         |                               |               | <u>10.7</u>        |                      | <u>885.5</u>                |
| <u>Top "</u>       | <u>109°-00'</u> | <u>33</u>  |               |                         |                               |               | <u>8.8</u>         |                      | <u>87.4</u>                 |
| <u>" "</u>         | <u>96°-45'</u>  | <u>41</u>  |               |                         |                               |               | <u>9.5</u>         |                      | <u>86.7</u>                 |
| <u>G.E.</u>        | <u>86°-00'</u>  | <u>54</u>  |               |                         |                               |               | <u>6.3</u>         |                      | <u>89.9</u>                 |
| <u>± Ditch</u>     | <u>60°-00'</u>  | <u>34</u>  | <u>—</u>      |                         |                               |               | <u>11.6</u>        |                      | <u>84.6</u>                 |
| <u>G.E.</u>        | <u>37°-40'</u>  | <u>127</u> |               |                         |                               |               | <u>0.7</u>         |                      | <u>95.5</u>                 |
| <u>± ditch</u>     | <u>32°-15'</u>  | <u>59</u>  | <u>—</u>      |                         |                               |               | <u>12.2</u>        |                      | <u>84.0</u>                 |
| <u>Top Ditch</u>   | <u>37°-00'</u>  | <u>65</u>  |               |                         |                               |               | <u>10.1</u>        |                      | <u>86.1</u>                 |
| <u>" "</u>         | <u>28°-10'</u>  | <u>52</u>  |               |                         |                               |               | <u>9.2</u>         |                      | <u>87.0</u>                 |
| <u>" "</u>         | <u>55°-30'</u>  | <u>29</u>  |               |                         |                               |               | <u>8.5</u>         |                      | <u>87.7</u>                 |



Date 11-2-44 Rec. \_\_\_\_\_

Page. 131. Transit. Obs. Line. Ditch 4

Date. 11-3-44 Rec.

#19

| OBJECT              | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                     |          |        |               | Up+                     | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| 11. 898.45<br>Ditch | 144°-00' | 1.11   | -             |                         |                         |               | 15.0               |                      | 883.4                       |
| Top "               | 142°-40' | 1.23   |               | -                       | $\frac{1}{2}$           | 0.6           | 12.0               | -12.6                | 85.8                        |
| " "                 | 145°-10' | 1.10   |               | -                       | 1                       | 1.1           | 12.2               | -13.3                | 85.1                        |
| G.E.                | 115°-00' | 1.52   |               | +                       | $\frac{1}{2}$           | 0.7           | 0.2                | +0.5                 | 98.9                        |
| N & S Fence         | 163°-00' | 94     | -             |                         |                         |               | 7.7                |                      | 90.7                        |
| G.E.                | 131°-30' | 1.16   |               |                         |                         |               | 9.2                |                      | 89.2                        |
| "                   | 137°-20' | 44     |               |                         |                         |               | 9.9                |                      | 88.5                        |
| "                   | 144°-20' | 1.74   |               |                         |                         |               | 8.2                |                      | 90.2                        |
| "                   | 183°-00' | 90     |               |                         |                         |               | 0.6                |                      | 97.8                        |
| Hill                | 227°-00' | 1.20   |               | +                       | 8°-47'                  | 18.3          | 5.0                | +13.3                | 911.7                       |
| "                   | 271°-15' | 1.12   |               | +                       | 10°-30'                 | 20.4          | 5.0                | +15.4                | 913.8                       |
| "                   | 302°-50' | 1.10   |               | +                       | 6°-00'                  | 11.5          | 5.0                | +6.5                 | 904.9                       |
| G.E.                | 71°-45'  | 98     |               |                         |                         |               | 6.8                |                      | 891.6                       |
| Draw                | 69°-00'  | 1.03   |               |                         |                         |               | 9.2                |                      | 89.2                        |
| G.E.                | 63°-10'  | 1.18   |               |                         |                         |               | 3.5                |                      | 94.9                        |
| "                   | 87°-30'  | 1.60   |               | +                       | 2°-45'                  | 7.7           | 5.0                | +2.7                 | 901.1                       |
| Draw                | 87°-50'  | 1.44   |               |                         |                         |               | 2.5                |                      | 895.9                       |

Page 132 Transit.....Obs.....Line.....Date 11-3-44 Rec.....

| #19 | OBJECT | AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|--------|---------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |        |         |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |

|     |         |      |   |  |  |  |     |  |       |
|-----|---------|------|---|--|--|--|-----|--|-------|
| G.F | 88°-00' | 1.28 | - |  |  |  | 1.2 |  | 897.2 |
|-----|---------|------|---|--|--|--|-----|--|-------|

|   |          |      |   |  |  |  |     |  |      |
|---|----------|------|---|--|--|--|-----|--|------|
| " | 323°-50' | 1.23 | - |  |  |  | 2.6 |  | 89.8 |
|---|----------|------|---|--|--|--|-----|--|------|

|   |         |      |   |   |        |      |     |      |       |
|---|---------|------|---|---|--------|------|-----|------|-------|
| " | 63°-15' | 1.86 | - | + | 3°-20' | 10.8 | 5.0 | +5.8 | 904.2 |
|---|---------|------|---|---|--------|------|-----|------|-------|

|   |         |      |   |  |  |  |     |  |       |
|---|---------|------|---|--|--|--|-----|--|-------|
| " | 52°-10' | 1.36 | - |  |  |  | 3.4 |  | 895.0 |
|---|---------|------|---|--|--|--|-----|--|-------|

|   |          |     |   |  |  |  |     |  |      |
|---|----------|-----|---|--|--|--|-----|--|------|
| " | 322°-50' | 6.6 | - |  |  |  | 6.3 |  | 92.1 |
|---|----------|-----|---|--|--|--|-----|--|------|

|   |         |    |   |  |  |  |     |  |      |
|---|---------|----|---|--|--|--|-----|--|------|
| " | 30°-00' | 97 | - |  |  |  | 9.8 |  | 88.6 |
|---|---------|----|---|--|--|--|-----|--|------|

|   |         |     |   |  |  |  |     |  |      |
|---|---------|-----|---|--|--|--|-----|--|------|
| " | 42°-20' | 191 | - |  |  |  | 4.4 |  | 94.0 |
|---|---------|-----|---|--|--|--|-----|--|------|

|   |         |      |   |   |   |      |     |      |       |
|---|---------|------|---|---|---|------|-----|------|-------|
| " | 49°-45' | 2.30 | - | + | 2 | 4.60 | 1.0 | +3.6 | 902.0 |
|---|---------|------|---|---|---|------|-----|------|-------|

|      |         |      |   |   |        |      |     |       |       |
|------|---------|------|---|---|--------|------|-----|-------|-------|
| Hill | 58°-50' | 3.48 | - | + | 4°-45' | 28.8 | 5.0 | +23.8 | 922.2 |
|------|---------|------|---|---|--------|------|-----|-------|-------|

|       |                      |                  |  |  |  |  |  |  |        |
|-------|----------------------|------------------|--|--|--|--|--|--|--------|
| #19-A | H.I. 4.40 G.F. - 0.5 | 888.75<br>888.69 |  |  |  |  |  |  | 888.72 |
|-------|----------------------|------------------|--|--|--|--|--|--|--------|

|           |  |  |  |  |  |  |  |  |        |
|-----------|--|--|--|--|--|--|--|--|--------|
| At Δ 19 A |  |  |  |  |  |  |  |  | 884.35 |
|-----------|--|--|--|--|--|--|--|--|--------|

|      |          |      |   |   |        |       |     |       |        |
|------|----------|------|---|---|--------|-------|-----|-------|--------|
| Δ 19 | 172°-09' | 1.10 | - | + | 5°-27' | 10.45 | 5.0 | +5.45 | 894.14 |
|------|----------|------|---|---|--------|-------|-----|-------|--------|

|       |          |      |   |  |  |  |     |  |       |
|-------|----------|------|---|--|--|--|-----|--|-------|
| Ditch | 156°-30' | 1.52 | - |  |  |  | 6.2 |  | 882.5 |
|-------|----------|------|---|--|--|--|-----|--|-------|

|     |   |      |   |  |  |  |     |  |      |
|-----|---|------|---|--|--|--|-----|--|------|
| Top | " | 1.54 | - |  |  |  | 3.9 |  | 84.8 |
|-----|---|------|---|--|--|--|-----|--|------|

|   |   |      |   |  |  |  |     |  |      |
|---|---|------|---|--|--|--|-----|--|------|
| " | " | 1.50 | - |  |  |  | 4.0 |  | 84.7 |
|---|---|------|---|--|--|--|-----|--|------|

|   |   |    |   |  |  |  |     |  |      |
|---|---|----|---|--|--|--|-----|--|------|
| " | " | 97 | - |  |  |  | 5.5 |  | 83.2 |
|---|---|----|---|--|--|--|-----|--|------|



Page 133 Transit ..... Obs. .... Line. .... Ditch 4.

Date 11-3-44. Rec. ....

| #19-A<br>OBJECT | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         |            | READ. ON ROD | DIFF. OF ELEV. | ELEVATION ABOVE DATUM |
|-----------------|----------|--------|----------|-------------------------|-------------------------|------------|--------------|----------------|-----------------------|
|                 |          |        |          | Up+<br>Down-            | No. of Int.<br>or Angle | Rod Equiv. |              |                |                       |
| G.E.            | 163°-10' | 1.47   | —        | +                       | 2°-10'                  | 5.5        | 5.0          | +0.5           | 889.2                 |
| ☿ Ditch         | 151°-30' | 93     | —        |                         |                         |            | 8.0          |                | 80.7                  |
| Top "           | 154°-40' | 94     | —        |                         |                         |            | 5.1          |                | 83.6                  |
| ☿ "             | 163°-00' | 26     | —        |                         |                         |            | 8.4          |                | 80.3                  |
| Top "           | 171°-00' | 34     | ✓        |                         |                         |            | 5.7          |                | 83.0                  |
| " "             | 155°-00' | 15     | ✓        |                         |                         |            | 4.2          |                | 84.5                  |
| ☿ "             | 291°-20' | 34     | ✓        |                         |                         |            | 9.1          |                | 79.6                  |
| Top "           | 261°-00' | 30     | —        |                         |                         |            | 3.3          |                | 85.4                  |
| Draw.           | 130°-15' | 57     | —        |                         |                         |            | 3.9          |                | 84.8                  |
| G.E.            | 260°-00' | 57     | ✓        | +                       | 6°-10'                  | 6.1        | 5.0          | +1.1           | 89.8                  |
| "               | 121°-30' | 59     | ✓        |                         |                         |            | 1.8          |                | 86.9                  |
| Top Ditch       | 304°-30' | 22     | —        |                         |                         |            | 5.4          |                | 83.3                  |
| G.E.            | 52°-30'  | 51     | —        |                         |                         |            | 3.1          |                | 85.6                  |
| ☿ Ditch         | 321°-00' | 56     | —        |                         |                         |            | 9.7          |                | 79.0                  |
| G.E.            | 14°-00'  | 50     | —        |                         |                         |            | 6.5          |                | 82.2                  |
| Top Ditch       | 311°-15' | 64     |          |                         |                         |            | 6.6          |                | 82.1                  |
| " "             | 326°-00' | 57     |          |                         |                         |            | 6.7          |                | 82.0                  |

Page <sup>134</sup> ..... Transit. .... Obs. .... Line. ....Date <sup>11-3-44</sup> ..... Rec. ....

| #19-A<br>OBJECT                    | AZIMUTH  | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------------------------|----------|--------|----------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                                    |          |        |          | Up+                     | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| <sup>H. 1.888.72</sup><br>☼ Ditch. | 325°-30' | 1.10   | —        |                         |                         |               | 9.4                |                      | 879.3                       |
| Top "                              | 330°-00' | 1.07.  |          |                         |                         |               | 7.8                |                      | 80.9                        |
| " "                                | 322°-45' | 1.01.  |          |                         |                         |               | 7.9.               |                      | 80.8                        |
| G.E.                               | 278°-20' | 88     |          |                         |                         |               | 4.6                |                      | 84.1                        |
| "                                  | 349°-30' | 36     |          |                         |                         |               | 6.0                |                      | 82.7                        |
| "                                  | 291°-00' | 1.16   |          |                         |                         |               | 8.4                |                      | 80.3                        |
| "                                  | 347°-50' | 1.00   |          |                         |                         |               | 8.7                |                      | 80.0                        |
| "                                  | 280°-15' | 1.65   |          |                         |                         |               | 8.2                |                      | 80.5                        |
| "                                  | 280°-30' | 2.10   |          |                         |                         |               | 8.3                |                      | 80.4                        |
| "                                  | 10°-45'  | 96     |          |                         |                         |               | 7.5                |                      | 81.2                        |
| "                                  | 12°-00'  | 65     |          |                         |                         |               | 6.9                |                      | 81.8                        |
| ☼ Ditch                            | 206°-30' | 17     |          |                         |                         |               | 9.0                |                      | 79.7                        |
| Top "                              | 212°-30' | 25     |          |                         |                         |               | 5.0                |                      | 83.7                        |
| " "                                | 195°-00' | 14     |          |                         |                         |               | 5.8                |                      | 82.9                        |

Page 135 Transit ..... Obs. .... Line Ditch  
 Date 11-3-44 Rec. ....

| #20<br>OBJECT      | AZIMUTH          | STADIA              | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                               |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------|------------------|---------------------|---------------|-------------------------|-------------------------------|---------------|--------------------|----------------------|-----------------------------|
|                    |                  |                     |               | Up+                     | No. of Int.<br>Down- or Angle | Rod<br>Equiv. |                    |                      |                             |
| H.I 4.39 G.E - 0.5 | 883.59<br>883.54 |                     | 883.57        |                         |                               |               |                    |                      | 879.18<br>879.20            |
| A+ Δ 20            |                  |                     |               |                         |                               |               |                    |                      |                             |
| Δ 19               | 164°-02'         | 3.15                |               | +                       | 4                             | 12.60         | 2.0                | 10.60                | 894.14                      |
| Δ 21               | 356°-36'         | 13.65               |               |                         |                               |               | 2.16               |                      | 881.41                      |
| check Azi.         | 27°-07'          | Nazareth Hall Tower |               |                         |                               |               |                    |                      |                             |
| Water Elev         | 325°-00'         | 30                  | -             |                         |                               |               | 6.08               |                      | 877.49                      |
| ☼ Ditch            | 186°-00'         | 71                  | -             |                         |                               |               | 4.8                |                      | 878.8                       |
| Top "              | 182°-30'         | 71                  | -             |                         |                               |               | 4.1                |                      | 79.5                        |
| " "                | 188°-30'         | 72                  | -             |                         |                               |               | 3.9                |                      | 79.7                        |
| G.E.               | 211°-00'         | 34                  | -             |                         |                               |               | 4.0                |                      | 79.6                        |
| W.S.               | 257°-30'         | 70                  | -             |                         |                               |               | 6.1                |                      | 77.5                        |
| "                  | 237°-40'         | 1.20                | -             |                         |                               |               |                    |                      |                             |
| G.E.               | 211°-45'         | 1.40                | -             |                         |                               |               | 4.5                |                      | 79.1                        |
| W.S.               | 238°-00'         | 1.70                | -             |                         |                               |               |                    |                      |                             |
| G.E.               | 212°-00'         | 2.33                | -             |                         |                               |               | 1.6                |                      | 82.0                        |
| W.S.               | 260°-00'         | 1.95                | -             |                         |                               |               |                    |                      |                             |



Page 136 Transit.....Obs.....Line.....  
 Date 11-3-44 Rec.....

#20

OBJECT

H.I. 883.57

AZIMUTH

STADIA

DIS-  
TANCE

INTERVALS OR VER. ANGLE

Up+  
Down-

No. of Int.  
or Angle

Rod  
Equiv.

READ.  
ON  
ROD

DIFF.  
OF  
ELEV.

ELEVATION  
ABOVE  
DATUM

G.E. 226°-30' 2.66 - +  $\frac{1}{2}$  1.3 2.5 -1.2 882.4

" 237°-10' 2.60 - 1.0 82.6

" 267°-40' 2.00 - 5.3 78.3

" 261°-00' 2.20 - 4.9 78.7

W.S. 290°-00' 1.52 - 81.5

G.E. 256°-45' 2.50 - 2.1 81.5

W.S. 312°-45' 2.50 - 80.3

G.E. 274°-45' 2.34 - 3.3 80.3

" 312°-40' 2.70 - 5.1 78.5

" 277°-00' 2.65 - 2.0 81.6

" 312°-30' 3.15 - +  $\frac{1}{2}$  1.1 1.6 -0.5 83.1

" 300°-30' 3.00 - 1.8 81.8

W.S. 328°-30' 2.40 - 78.0

G.E. 298°-30' 2.13 - 5.6 78.0

" 327°-30' 2.60 - 4.9 78.7

" 327°-00' 3.50 - -  $\frac{1}{2}$  1.7 1.7 -3.4 80.2

W.S. 341°-40' 2.76 - 80.2

Page. 137 Transit. .... Obs. .... Line. Ditch 4.  
 Date. 11-3-44 Rec. ....

| #20 | OBJECT | AZIMUTH          | STADIA | DISTANCE | INTERVALS OR VER. ANGLE |                         | READ. ON ROD | DIFF. OF ELEV. | ELEVATION ABOVE DATUM |
|-----|--------|------------------|--------|----------|-------------------------|-------------------------|--------------|----------------|-----------------------|
|     |        |                  |        |          | Up+<br>Down-            | No. of Int.<br>or Angle |              |                |                       |
|     |        | <u>H1.883.54</u> |        |          |                         |                         |              |                |                       |
|     | G.E.   | 336°-45'         | 2.94   | -        |                         |                         | 5.3          |                | 878.3                 |
|     | "      | 337°-30'         | 3.64   | -        |                         |                         | 4.9          |                | 78.7                  |
|     | "      | 331°-50'         | 3.74   | -        |                         |                         | 2.5          |                | 81.1                  |
|     | W.S.   | 101°-15'         | 70     | -        |                         |                         |              |                |                       |
|     | G.E.   | 98°-00'          | 94     | -        |                         |                         | 4.7          |                | 78.9                  |
|     | "      | 121°-15'         | 1.53   | -        |                         |                         | 2.8          |                | 80.8                  |
|     | "      | 140°-20'         | 84     | -        |                         |                         | 5.1          |                | 78.5                  |
|     | "      | 109°-46'         | 2.07   | -        | +                       | 1                       | 2.1          | +0.7           | 84.3                  |
|     | W.S.   | 58°-15'          | 1.00   | -        |                         |                         |              |                |                       |
|     | G.E.   | 77°-45'          | 2.04   | -        | +                       | 1                       | 2.0          | -1.2           | 82.4                  |
|     | "      | 68°-00'          | 1.50   | -        |                         |                         | 4.7          |                | 78.9                  |
|     | "      | 71°-00'          | 2.50   | -        | +                       | 2°-35'                  | 11.2         | +6.2           | 89.8                  |
|     | W.S.   | 48°-30'          | 1.72   | -        |                         |                         |              |                |                       |
|     | G.E.   | 67°-30'          | 2.35   | -        | +                       | $\frac{1}{2}$           | 1.2          | -0.5           | 83.1                  |
|     | "      | 55°-00'          | 2.00   | -        |                         |                         | 4.2          |                | 79.4                  |
|     | "      | 59°-00'          | 2.90   | -        | +                       | $\frac{1}{2}$           | 1.4          | -1.2           | 82.4                  |
|     | W.S.   | 43°-45'          | 2.60   | -        |                         |                         |              |                |                       |

Page 138 Transit.....Obs.....Line.....  
 Date 11-3-44 Rec.....

| #20 | OBJECT      | AZIMUTH  | STADIA            | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----|-------------|----------|-------------------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|     |             |          |                   |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|     | H.I. 883.57 |          |                   |               |                         |                         |               |                    |                      |                             |
|     | G.E.        | 59°-00'  | 3.11              | -             | +                       | 2                       | 6.2           | 1.7                | +4.5                 | 888.1                       |
|     | "           | 48°-30'  | 2.64              | -             |                         |                         |               | 4.2                |                      | 79.4                        |
|     | W.S.        | 43°-45'  | 3.70              | -             |                         |                         |               |                    |                      |                             |
|     | G.E.        | 53°-30'  | 3.88              | -             | +                       | 1°-20'                  | 9.0           | 5.0                | +4.0                 | 87.6                        |
|     | "           | 47°-50'  | 3.68              | -             | +                       | 1/2                     | 1.8           | 4.7                | -2.9                 | 80.7                        |
|     | W.S.        | 38°-10'  | 4.55              | -             |                         |                         |               |                    |                      |                             |
|     | G.E.        | 42°-10'  | 4.50              |               |                         |                         |               | 4.9                |                      | 78.7                        |
| #21 | H.I. 432    | 885.73   | 885.76            |               |                         |                         |               |                    |                      | 881.44                      |
|     |             | 885.78   |                   |               |                         |                         |               |                    |                      | 881.41                      |
|     | A+ A 21     |          |                   |               |                         |                         |               |                    |                      |                             |
|     | A 20        | 176°-36' | 1365              |               |                         |                         |               | 6.60               |                      | 819.18                      |
|     | Check Azi.  | 19°-16'  | steeple on church |               |                         |                         |               |                    |                      |                             |
|     | W.S.        | 159°-45' | 1050              | -             |                         |                         |               | 8.28               |                      | 877.48                      |
|     | G.E.        | 159°-30' | 1070              |               |                         |                         |               | 7.2                |                      | 78.6                        |
|     | "           | 158°-40' | 11.40             |               | +                       | 1/2                     | 5.7           | 9.0                | -3.3                 | 82.5                        |
|     | W.S.        | 182°-50' | 9.70              | -             |                         |                         |               |                    |                      |                             |
|     | G.E.        | 185°-20' | 9.70              |               |                         |                         |               | 6.8                |                      | 79.0                        |
|     | W.S.        | 149°-50' | 10.00             | -             |                         |                         |               |                    |                      |                             |



Page 139 Transit ..... Obs. .... Line Ditch 4  
Date 11-3-44 Rec. ....

| #21 | OBJECT | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |               |
|-----|--------|----------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|---------------|
|     |        |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle |                    |                      |                             | Rod<br>Equiv. |
|     | G.E.   | 187°-15' | 9.70   | -             |                         |                         | 6.1.               |                      | 879.7                       |               |
|     | "      | 150°-10' | 10.22  | -             |                         |                         | 6.3                |                      | 79.5                        |               |
|     | W.S.   | 187°-40' | 8.10   | -             |                         |                         |                    |                      |                             |               |
|     | G.E.   | 188°-40' | 8.21   | -             |                         |                         | 6.9.               |                      | 78.9                        |               |
|     | "      | 150°-40' | 10.90  | -             | +                       | $\frac{1}{2}$           | 5.4                | 4.3                  | +1.1                        | 86.9          |
|     | "      | 191°-50' | 8.30   | -             |                         |                         | 3.7                |                      |                             | 82.1          |
|     | W.S.   | 143°-40' | 9.80   | -             |                         |                         |                    |                      |                             |               |
|     | "      | 191°-40' | 7.20   | -             |                         |                         |                    |                      |                             |               |
|     | G.E.   | 142°-30' | 10.00  | -             |                         |                         | 6.1.               |                      |                             | 79.7          |
|     | "      | 193°-10' | 7.35   | -             |                         |                         | 6.7.               |                      |                             | 79.1          |
|     | "      | 196°-30' | 7.40   | -             |                         |                         | 2.8                |                      |                             | 83.0          |
|     | "      | 142°-20' | 10.70  | -             | +                       | $\frac{1}{2}$           | 5.3                | 3.6                  | +1.7                        | 87.5          |
|     | W.S.   | 193°-45' | 6.30   | -             |                         |                         |                    |                      |                             |               |
|     | G.E.   | 194°-50' | 6.30   | -             |                         |                         | 6.5                |                      |                             | 79.3          |
|     | "      | 199°-40' | 6.52   | -             |                         |                         | 2.0                |                      |                             | 83.8          |
|     | W.S.   | 126°-30' | 9.00   | -             |                         |                         |                    |                      |                             |               |
|     | "      | 197°-00' | 5.20   | -             |                         |                         |                    |                      |                             |               |

Page 140 Transit.....Obs.....Line.....Date 11-3-44 Rec.....

| #21<br>OBJECT | AZIMUTH            | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------|--------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|               |                    |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|               | <u>H.I. 885.76</u> |        |               |                         |                         |               |                    |                      |                             |
| G.E.          | 199°-10'           | 5.30   |               |                         |                         |               | 6.7                |                      | 879.1                       |
| "             | 126°-30'           | 9.27   |               |                         |                         |               | 6.5                |                      | 79.3                        |
| E & W Fence   | 205°-30'           | 5.52   | -             | +                       | $\frac{1}{2}$           | 2.7           | 2.1                | +0.6                 | 86.4 ✓                      |
| G.E.          | 124°-20'           | 9.85   |               | +                       | 1                       | 9.8           | 3.5                | +6.3                 | 92.1                        |
| W.S.          | 199°-40'           | 4.20   | -             |                         |                         |               |                    |                      |                             |
| G.E.          | 203°-40'           | 4.10   |               |                         |                         |               | 6.0                |                      | 79.8                        |
| W.S.          | 112°-00'           | 8.00   | -             |                         |                         |               |                    |                      |                             |
| G.E.          | 211°-40'           | 4.20   |               | +                       | $\frac{1}{2}$           | 2.1           | 2.2                | -0.1                 | 85.7                        |
| "             | 110°-00'           | 8.20   |               |                         |                         |               | 6.6                |                      | 79.2                        |
| W.S.          | 199°-10'           | 3.10   | -             |                         |                         |               |                    |                      |                             |
| G.E.          | 109°-00'           | 5.60   |               |                         |                         |               | 2.0                |                      | 83.8                        |
| "             | 205°-20'           | 3.00   |               |                         |                         |               | 5.8                |                      | 80.0                        |
| "             | 213°-40'           | 2.96   |               | +                       | $\frac{1}{2}$           | 1.5           | 3.0                | -1.5                 | 84.3                        |
| W.S.          | 189°-30'           | 2.20   | -             |                         |                         |               |                    |                      |                             |
| "             | 101°-30'           | 7.00   | -             |                         |                         |               |                    |                      |                             |
| G.E.          | 201°-15'           | 1.81   |               |                         |                         |               | 6.7                |                      | 79.1                        |
| "             | 218°-00'           | 1.74   |               |                         |                         |               | 2.1                |                      | 83.7                        |

Page 141 Transit ..... Obs. .... Line Ditch 4  
 Date 11-3-44 Rec. ....

#21

| OBJECT            | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                   |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| H.I. 885.76       |          |        |               |                         |                         |               |                    |                      |                             |
| G.E.              | 100°-20' | 8.00   |               | +                       | 1                       | 8.0           | 3.7                | +4.3                 | 890.1                       |
| Water Elev.       | 163°-00' | 1.50   | -             |                         |                         |               | 8.28               |                      | 877.48                      |
| W.S.              | 97°-40'  | 6.40   | -             |                         |                         |               |                    |                      |                             |
| G.E.              | 185°-00' | 1.35   |               |                         |                         |               | 6.4                |                      | 79.4                        |
| "                 | 202°-30' | 1.33   |               |                         |                         |               | 6.5                |                      | 79.3                        |
| "                 | 219°-30' | 1.40   |               |                         |                         |               | 2.7                |                      | 83.1                        |
| W.S. Lake Johanna |          |        |               |                         |                         |               | 8.82               |                      | 876.94                      |
| H.I. 4.27         |          |        |               |                         |                         |               |                    |                      |                             |
| H.I. 885.71       |          |        |               |                         |                         |               |                    |                      |                             |
| 11-4-44 ATΔ 21    |          |        |               |                         |                         |               |                    |                      | 881.44                      |
| Δ 21A             | 217°-52' | 2.16   |               | +                       | 1/2                     | 1.08          | 0.94               | +0.14                | 885.85                      |
| G.E.              | 188°-00' | 1.80   | -             |                         |                         |               | 8.0                |                      | 877.7                       |
| Top Ditch         | 75°-30'  | 56     | -             |                         |                         |               | 7.3                |                      | 78.4                        |
| Top "             | 75°-30'  | 67     | -             |                         |                         |               | 8.1                |                      | 77.6                        |
| Top "             | 74°-30'  | 73     | -             |                         |                         |               | 7.1                |                      | 78.6                        |
| G.E.              | 208°-15' | 81     |               |                         |                         |               | 6.1                |                      | 79.6                        |
| "                 | 229°-00' | 87     |               |                         |                         |               | 2.9                |                      | 82.8                        |



Page 142 Transit.....Obs.....Line.....Date 11-A-44.....Rec.....

| OBJECT       | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|              |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| #21          |          |        |               |                         |                         |               |                    |                      |                             |
| H.I.         | 885.71   |        |               |                         |                         |               |                    |                      |                             |
| G.E.         | 75°-00'  | 1.07   |               |                         |                         |               | 6.1                |                      | 879.6                       |
| "            | 75°-45'  | 1.38   |               |                         |                         |               | 4.3                |                      | 81.4                        |
| "            | 257°-00' | 60     |               |                         |                         |               | 2.0                |                      | 83.7                        |
| "            | 262°-00' | 36     |               |                         |                         |               | 5.2                |                      | 80.5                        |
| "            | 125°-30' | 93     |               |                         |                         |               | 7.9                |                      | 77.8                        |
| "            | 306°-15' | 31     |               |                         |                         |               | 6.7                |                      | 79.0                        |
| "            | 251°-00' | 47     |               |                         |                         |               | 4.3                |                      | 81.4                        |
| "            | 216°-45' | 34     |               |                         |                         |               | 6.3                |                      | 79.4                        |
| W. Top Ditch | 132°-00' | 86     |               |                         |                         |               | 7.9                |                      | 77.8                        |
| G.E.         | 99°-15'  | 30     |               |                         |                         |               | 7.0                |                      | 78.7                        |
| ☿ Ditch      | 127°-20' | 88     |               |                         |                         |               | 8.3                |                      | 77.4                        |
| G.E.         | 60°-00'  | 50     |               |                         |                         |               | 6.0                |                      | 79.7                        |
| "            | 36°-00'  | 62     |               |                         |                         |               | 6.5                |                      | 79.2                        |
| Top Ditch    | 23°-20'  | 1.83   |               |                         |                         |               | 8.5                |                      | 77.2                        |
| G.E.         | 14°-30'  | 27     |               |                         |                         |               | 7.7                |                      | 78.0                        |
| ☿ Ditch      | 23°-00'  | 1.68   |               |                         |                         |               | 9.1                |                      | 76.6                        |
| G.E.         | 307°-00' | 78     |               |                         |                         |               | 1.9                |                      | 83.8                        |

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 Date 11-4-44 Rec.....

| #21<br>OBJECT | AZIMUTH            | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |        | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|---------------|--------------------|--------|---------------|-------------------------|-------------|--------|--------------------|----------------------|-----------------------------|
|               |                    |        |               | Up+                     | No. of Int. | Rod    |                    |                      |                             |
|               |                    |        |               | Down-                   | or Angle    | Equiv. |                    |                      |                             |
|               | <u>H.I. 885.71</u> |        |               |                         |             |        |                    |                      |                             |
| Top Ditch     | 47°-30'            | 96     | —             |                         |             |        | 6.3                |                      | 879.4                       |
| G.E.          | 327°-00'           | 63     | —             |                         |             |        | 6.4                |                      | 79.3                        |
| "             | 40°-00'            | 1.18   | —             |                         |             |        | 7.6                |                      | 78.1                        |
| "             | 335°-30'           | 1.52   | —             |                         |             |        | 6.3                |                      | 79.4                        |
| "             | 48°-45'            | 1.47   | —             |                         |             |        | 7.6                |                      | 78.1                        |
| "             | 328°-00'           | 1.60   | —             |                         |             |        | 2.4                |                      | 83.3                        |
| "             | 51°-45'            | 1.98   | —             |                         |             |        | 4.7                |                      | 81.0                        |
| "             | 343°-45'           | 2.36   | —             |                         |             |        | 6.2                |                      | 79.5                        |
| "             | 336°-50'           | 2.22   | —             |                         |             |        | 1.3                |                      | 84.4                        |
| "             | 35°-40'            | 2.08   | —             |                         |             |        | 8.2                |                      | 77.5                        |
| "             | 349°-00'           | 2.20   | —             |                         |             |        | 8.8                |                      | 76.9                        |
| "             | 45°-00'            | 2.40   | —             |                         |             |        | 4.5                |                      | 81.2                        |
| "             | 348°-30'           | 1.33   | —             |                         |             |        | 8.8                |                      | 76.9                        |
| W.S. Pond     | 27°-00'            | 2.90   | —             |                         |             |        | 8.8                |                      | 76.9                        |
| G.E.          | 2°-40'             | .90    | —             |                         |             |        | 8.7                |                      | 77.0                        |
| "             | 25°-20'            | 3.10   | —             |                         |             |        | 4.1                |                      | 81.6                        |
| "             | 12°-20'            | 1.07   | —             |                         |             |        | 7.2                |                      | 78.5                        |

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| #21<br>OBJECT         | AZIMUTH            | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------|--------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                       |                    |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
|                       | <u>H.I. 885.71</u> |        |               |                         |                         |               |                    |                      |                             |
| G.E.                  | 8°-30'             | 6.82   |               |                         |                         |               | 8.5                |                      | 877.2                       |
| "                     | 23°-30'            | 3.65   |               |                         |                         |               | 5.3                |                      | 80.4                        |
| Top Ditch             | 18°-30'            | 1.80   |               |                         |                         |               | 8.2                |                      | 77.5                        |
| G.E.                  | 21°-50'            | 3.90   |               |                         |                         |               | 7.2                |                      | 78.5                        |
| Top Ditch             | 30°-15'            | 1.05   |               |                         |                         |               | 7.1                |                      | 78.6                        |
| ☼ Drive               | 324°-30'           | 2.60   | ✓             | +                       | 1°-50'                  | 8.3           | 5.0                | +3.3                 | 89.0                        |
| S.W. Cor Bldg.        | 25°-40'            | 3.74   | ✓             |                         |                         |               | 4.4                |                      | 81.3                        |
| ☼ Drive               | 343°-30'           | 2.68   | ✓             |                         |                         |               | 2.5                |                      | 83.2                        |
| N.W. Cor Bldg. 12' W. | 23°-10'            | 4.00   | ✓             | -                       | $\frac{1}{2}$           | 2.0           | 5.4                | -7.4                 | 78.3                        |
| S.E. Cor " 21' W.     | 344°-40'           | 3.05   | ✓             |                         |                         |               | 3.9                |                      | 81.8                        |
| S.L. Johanna          | 21°-45'            | 4.16   | ✓             |                         |                         |               | 8.55               |                      | 877.16                      |
| " "                   | 16°-10'            | 3.96   | ✓             |                         |                         |               |                    |                      |                             |
| N.E. Cor Bldg.        | 346°-00'           | 3.30   | ✓             |                         |                         |               | 5.5                |                      | 80.2                        |
| N.W. " "              | 17°-10'            | 3.69   | ✓             |                         |                         |               | 6.5                |                      | 79.2                        |
| S.W. " " 22' W.       | 18°-40'            | 3.51   | ✓             |                         |                         |               | 5.5                |                      | 80.2                        |
| G.E.                  | 335°-30'           | 3.10   |               | +                       | $\frac{1}{2}$           | 1.5           | 3.9                | -2.4                 | 83.3                        |
| "                     | 333°-45'           | 3.20   |               | +                       | 1                       | 3.2           | 2.2                | +1.0                 | 86.7                        |



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 Date 11-4-44 Rec.....

| #21<br>OBJECT            | AZIMUTH            | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |             |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------------------------|--------------------|--------|---------------|-------------------------|-------------|---------------|--------------------|----------------------|-----------------------------|
|                          |                    |        |               | Up+                     | No. of Int. | Rod<br>Equiv. |                    |                      |                             |
|                          |                    |        |               | Down-                   | or Angle    |               |                    |                      |                             |
|                          | <u>H.I. 885.71</u> |        |               |                         |             |               |                    |                      |                             |
| Flow Line 24" C.M. culv. | 14°-15'            | 2.90   | —             |                         |             |               | 8.8                |                      | 876.9                       |
| " " "                    | 13°-30'            | 3.20   | —             |                         |             |               | 9.1                |                      | 876.6                       |
| G.E.                     | 338°-30'           | 3.54   |               |                         | + 1/2       | 1.8           | 6.7                | -4.9                 | 80.8                        |
| ⊕ Drive                  | 13°-50'            | 3.02   | —             |                         |             |               | 7.1                |                      | 78.6                        |
| S.L. Johanna             | 338°-50'           | 3.16   | —             |                         |             |               |                    |                      |                             |
| Top Ditch                | 15°-40'            | 2.87   |               |                         |             |               | 6.9                |                      | 78.8                        |
| " "                      | 13°-30'            | 2.85   |               |                         |             |               | 6.8                |                      | 78.9                        |
| S.L. Johanna             | 355°-30'           | 3.73   | —             |                         |             |               |                    |                      |                             |
| S.W. Cor Bldg. 12' W.    | 6°-15'             | 3.20   | —             |                         |             |               | 6.3                |                      | 79.4                        |
| N.W. " "                 | 5°-40'             | 3.47   | —             |                         |             |               | 6.8                |                      | 78.9                        |
| G.E.                     | 7°-40'             | 3.40   |               |                         |             |               | 6.0                |                      | 79.7. ?                     |
| ⊕ Drive                  | 357°-50'           | 2.76   | —             |                         |             |               | 5.1                |                      | 80.6                        |
| S.L. Johanna             | 7°-20'             | 3.73   | —             |                         |             |               |                    |                      |                             |
| G.E.                     | 359°-45'           | 2.37   |               |                         |             |               | 8.8                |                      | 76.9                        |
| "                        | 0°-30'             | 2.52   |               |                         |             |               | 4.6                |                      | 81.1                        |
| ⊕ Ditch                  | 13°-15'            | 3.44   | —             |                         |             |               | 8.0                |                      | 77.7                        |
| Top "                    | 10°-40'            | 3.34   |               |                         |             |               | 6.4                |                      | 79.3                        |

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Date. 11-4-44. Rec. ....

| OBJECT    | H.I. 885.71<br>AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------|------------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|           |                        |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| Top Ditch | 15°-30'                | 3.44   |               |                         |                         |               | 5.9                |                      | 879.8                       |
| H.I. 4.47 |                        |        |               | 890.32 } 890.32         |                         |               |                    |                      |                             |
| At A 21A  |                        |        |               |                         |                         |               |                    |                      | 885.85                      |
| A 21      | 37°-52'                | 2.16   |               |                         |                         |               | 8.88               |                      | 881.44                      |
| W.S.      | 73°-21'                | 5.35   |               |                         |                         |               |                    |                      |                             |
| G.E.      | 54°-45'                | 3.16   |               |                         |                         |               | 8.6                |                      | 81.7                        |
| "         | 51°-30'                | 3.20   |               |                         |                         |               | 10.7               |                      | 79.6                        |
| W.S.      | 75°-45'                | 6.55   |               |                         |                         |               |                    |                      |                             |
| G.E.      | 57°-40'                | 3.05   |               |                         |                         |               | 10.8               |                      | 79.5                        |
| "         | 73°-00'                | 6.65   |               |                         |                         |               | 10.3               |                      | 80.0                        |
| W.S.      | 67°-20'                | 3.50   |               |                         |                         |               |                    |                      |                             |
| G.E.      | 65°-30'                | 3.60   |               |                         |                         |               | 11.2               |                      | 79.1                        |
| "         | 72°-20'                | 6.80   |               |                         |                         |               | 9.5                |                      | 80.8                        |
| "         | 60°-15'                | 4.00   |               |                         |                         |               | 8.0                |                      | 82.3                        |
| "         | 78°-40'                | 8.10   |               |                         |                         |               | 4.6                |                      | 85.7                        |
| "         | 56°-40'                | 4.02   |               |                         |                         |               | 5.5                |                      | 84.8                        |
| W.S.      | 73°-50'                | 4.30   |               |                         |                         |               |                    |                      |                             |

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 Date 11-4-44 Rec. ....

| OBJECT    | AZIMUTH  | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------|----------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|           |          |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| G.E.      | 66°-30'  | 4.10   |               |                         |                         |               | 10.6               |                      | 879.7                       |
| "         | 60°-30'  | 4.76   |               | +                       | $\frac{1}{2}$           | 2.3           | 7.2                | -4.9                 | 85.4                        |
| Knoll     | 334°-00' | 1.55   |               | +                       | 5°-10'                  | 14.0          | 5.0                | +9.0                 | 99.3                        |
| Draw.     | 276°-30' | 1.50   |               | +                       | 4°-15'                  | 11.1          | 5.0                | +6.1                 | 96.4                        |
| G.E. Hill | 248°-40' | 1.80   |               | +                       | 5°-50'                  | 18.3          | 5.0                | +13.3                | 903.6                       |
| Draw      | 245°-00' | 50     |               |                         |                         |               | 2.7                |                      | 87.6                        |
| G.E.      | 349°-00' | 2.73   |               | +                       | 2°-35'                  | 12.3          | 6.0                | +6.3                 | 896.6                       |
| "         | 351°-20' | 3.40   |               | +                       | 2°-25'                  | 14.3          | 5.0                | +9.3                 | 99.6                        |
| "         | 2°-50'   | 3.02   |               | +                       | 1°-10'                  | 6.2           | 10.0               | -3.8                 | 86.5                        |
| "         | 204°-00  | 57     |               |                         |                         |               | 4.7                |                      | 85.6                        |
| "         | 2°-45'   | 2.06   |               | +                       | 0°-50'                  | 3.0           | 5.0                | -2.0                 | 88.3                        |
| "         | 2°-10'   | 98     |               | +                       | $\frac{1}{2}$           | 0.5           | 0.0                | +0.5                 | 90.8                        |



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Date..... Rec.....

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Date. Rec.

| OBJECT                                              | ELEV.<br>AZIMUTH     | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE                                            |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------------------------------|----------------------|--------|---------------|--------------------------------------------------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                                                     |                      |        |               | Up+<br>Down-                                                       | No. of Int.<br>or Angle |                    |                      |                             |
| 0+00 L. JOHANNA                                     | 876.94               |        |               | 22+40                                                              |                         |                    |                      | 884.0                       |
| +40                                                 | 77.4                 |        |               | +70                                                                |                         |                    |                      | 84.6                        |
| +68 } 24" C.M. CULV.<br>+84 } E 19' DRIVE<br>1+00 } | 76.6<br>78.8<br>76.9 |        |               | +95                                                                |                         |                    |                      | 85.5                        |
| 2+20                                                | 76.6                 |        |               | 23+30                                                              |                         |                    |                      | 85.3                        |
|                                                     |                      |        |               | +50                                                                |                         |                    |                      | 86.4                        |
| 3+60                                                | 77.6                 |        |               | +75                                                                |                         |                    |                      | 86.0                        |
| 4+30 POND                                           | 77.5                 |        |               | 24+20 } 24" CONG. CULV.<br>+74 } E 22' RD.<br>25+12 } NAZARETH RD. |                         |                    |                      | 86.0<br>903.6               |
| 17+35 "                                             | 77.5                 |        |               | +40                                                                |                         |                    |                      | 86.9                        |
| 18+20                                               | 78.8                 |        |               |                                                                    |                         |                    |                      | 87.8                        |
| +60                                                 | 79.3                 |        |               |                                                                    |                         |                    |                      |                             |
| 19+10                                               | 79.0                 |        |               | 25+58 } 18" C.M. CULV.<br>26+55 } LYDIA ST.<br>27+18 } 34' WIDE    |                         |                    |                      | 88.1<br>906.4<br>89.8       |
| +40                                                 | 79.6                 |        |               | 28+20                                                              |                         |                    |                      | 91.0                        |
| +80                                                 | 79.7                 |        |               |                                                                    |                         |                    |                      |                             |
| 30+00                                               | 80.3                 |        |               | 29+00                                                              |                         |                    |                      | 91.8                        |
| +70                                                 | 80.7                 |        |               | 30+00                                                              |                         |                    |                      | 91.9                        |
| 21+25                                               | 82.5                 |        |               | +60                                                                |                         |                    |                      | 91.8                        |
| 22+00                                               | 83.4                 |        |               | 31+25                                                              |                         |                    |                      | 91.7                        |

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Date Rec.

| OBJECT                      | GRADE<br>AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         |               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-----------------------------|------------------|--------|---------------|-------------------------|-------------------------|---------------|--------------------|----------------------|-----------------------------|
|                             |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv. |                    |                      |                             |
| 33+15                       | 891.7            |        |               |                         | 44+00                   |               |                    |                      | 893.4                       |
| 34+00                       | 93.0             |        |               |                         | +90                     |               |                    |                      | 93.4                        |
| +75                         | 93.3             |        |               |                         | 45+60                   |               |                    |                      | 93.4                        |
| 35+38                       | 92.8             |        |               |                         | 46+30                   | POND          |                    |                      | 892.5                       |
| 35+38 = N. END 24" C.M.     | 91.4             |        |               |                         | 48+80                   | "             |                    |                      | 892.5                       |
| 35+48. 2 DRIVE              | 93.9             |        |               |                         |                         |               |                    |                      |                             |
| 35+58 INLET BURIED IN SAND. |                  |        |               |                         | 49+60                   |               |                    |                      | 93.8                        |
| 35+58 (GROUND)              | 93.9             |        |               |                         | 50+10                   |               |                    |                      | 94.4                        |
| +90                         | 92.6             |        |               |                         | +60                     |               |                    |                      | 94.6                        |
| 36+60                       | 92.2             |        |               |                         | 51+70                   |               |                    |                      | 95.1                        |
| 37+20                       | 92.2             |        |               |                         | 52+30                   |               |                    |                      | 95.8                        |
| +90                         | 92.4             |        |               |                         | 52+50                   |               |                    |                      | 96.7                        |
| 38+90                       | 92.3             |        |               |                         | 54+30                   |               |                    |                      | 97.5                        |
| 40+30                       | 92.5             |        |               |                         | 55+00                   |               |                    |                      | 98.9                        |
| 41+45                       | 93.2             |        |               |                         | +60                     |               |                    |                      | 900.5                       |
| 41+85                       | 93.4             |        |               |                         | 56+20                   |               |                    |                      | 00.6                        |
| 42+90                       | 93.4             |        |               |                         | +90                     |               |                    |                      | 01.3                        |
| 43+20                       | 93.4             |        |               |                         | 57+45                   |               |                    |                      | 02.5                        |



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| OBJECT                                   | AZIMUTH               | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE          |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|------------------------------------------|-----------------------|--------|---------------|----------------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                                          |                       |        |               | Up+<br>Down-                     | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| { 57+50 24" C.M.<br>+60 & DRIVE<br>+70 " | 903.2<br>06.9<br>03.4 |        |               | 75+00                            |                         |                    |                      | 907.4                       |
|                                          |                       |        |               | OUTLET<br>76+50 = 42" CONC.      |                         |                    |                      | 07.4                        |
| 58+30                                    | 04.3                  |        |               | 78+00 & 30. RD. "C"<br>+95 INLET |                         |                    |                      | 22.8<br>16.5                |
| 59+00                                    | 04.3                  |        |               | 79+20 & SPO LINE<br>+42 INLET    |                         |                    |                      | 23.4                        |
| 60+20                                    | 04.9                  |        |               | +42 = 42" CONC.                  |                         |                    |                      | 09.0                        |
| +50                                      | 05.8                  |        |               | 81+00                            |                         |                    |                      | 08.8                        |
| 61+75                                    | 06.4                  |        |               | 82+00                            |                         |                    |                      | 08.5                        |
| 63+00                                    | 06.5                  |        |               | 86+10                            |                         |                    |                      | 10.1                        |
| +70                                      | 06.2                  |        |               | 87+50                            |                         |                    |                      | 10.1                        |
| 64+90                                    | 05.5                  |        |               | 88+50                            |                         |                    |                      | 10.7                        |
| 65+35                                    | 04.7                  |        |               | 90+15                            |                         |                    |                      | 13.4                        |
| 66+60                                    | 05.4                  |        |               | +85                              |                         |                    |                      | 13.7                        |
| 67+10                                    | 06.0                  |        |               | 91+65                            |                         |                    |                      | 14.2                        |
| 68+60                                    | 06.2                  |        |               | 92+65                            |                         |                    |                      | 14.4                        |
| 70+10                                    | 06.5                  |        |               | OUTLET<br>93+12 = 36" C.M.       |                         |                    |                      | 14.7                        |
| 71+40                                    | 06.2                  |        |               | 93+24 & DRIVE                    |                         |                    |                      | 20.1                        |
| 73+50                                    | 06.2                  |        |               | INLET<br>93+36 = 36" C.M.        |                         |                    |                      | 14.7                        |

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Date. .... Rec. ....

| OBJECT | GRADE<br>AZIMUTH | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                                               | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|--------|------------------|--------|---------------|-------------------------|-----------------------------------------------|--------------------|----------------------|-----------------------------|
|        |                  |        |               | Up+<br>Down-            | No. of Int.<br>or Angle                       | Rod<br>Equiv.      |                      |                             |
| 94+20  | 914.8            |        |               |                         | 111+20                                        |                    |                      | 943.7                       |
| 95+15  | 15.6             |        |               |                         | 12+00                                         |                    |                      | 43.8                        |
| 96+50  | 17.2             |        |               |                         | +80                                           |                    |                      | 44.4                        |
| 97+80  | 18.2             |        |               |                         | 13+65                                         |                    |                      | 44.5                        |
| 99+30  | 19.0             |        |               |                         | 14+70 - <sup>12" C.I. SIDE DRAIN</sup> OUTLET |                    |                      | (43.6)                      |
| 100+60 | 21.3             |        |               |                         | 15+40                                         |                    |                      | 44.8                        |
| 101+30 | 23.5             |        |               |                         | 16+20                                         |                    |                      | 44.9                        |
| 2+00   | 24.3             |        |               |                         | +85                                           |                    |                      | 45.2                        |
| +65    | 25.2             |        |               |                         | 17+50                                         |                    |                      | 45.4                        |
| 3+30   | 27.3             |        |               |                         | 18+10                                         |                    |                      | 45.4                        |
| 4+60   | 30.4             |        |               |                         | 19+20                                         |                    |                      | 45.9                        |
| 5+70   | 32.4             |        |               |                         | 120+25                                        |                    |                      | 46.1                        |
| 6+60   | 35.6             |        |               |                         | 1+55                                          |                    |                      | 46.1                        |
| 7+80   | 39.5             |        |               |                         | 3+10                                          |                    |                      | 46.3                        |
| 8+80   | 41.8             |        |               |                         | 4+62 OUTLET 3'x3' Conc.                       |                    |                      | 46.0                        |
| 9+40   | 42.2             |        |               |                         | +96 <sup>RD.</sup> & NEW BRIGHTON             |                    |                      | 52.8                        |
| 110+15 | 43.0             |        |               |                         | 5+18 INLET 3'x3' Conc.                        |                    |                      | 46.8                        |

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 Date..... Rec.....

| OBJECT                  | GRADE<br><del>AZIMUTH</del> | STADIA | DIS-<br>TANCE | INTERVALS OR VER. ANGLE |                         | READ.<br>ON<br>ROD | DIFF.<br>OF<br>ELEV. | ELEVATION<br>ABOVE<br>DATUM |
|-------------------------|-----------------------------|--------|---------------|-------------------------|-------------------------|--------------------|----------------------|-----------------------------|
|                         |                             |        |               | Up+<br>Down-            | No. of Int.<br>or Angle | Rod<br>Equiv.      |                      |                             |
| 126+10                  | 946.8                       |        |               |                         | 146+15                  |                    |                      | 955.9                       |
| 7+70                    | 47.4                        |        |               |                         | 7+10                    |                    |                      | 56.0                        |
| 8+80                    | 47.8                        |        |               |                         | 8+20                    |                    |                      | 58.3                        |
| 9+90                    | 47.4                        |        |               |                         | 9+10                    |                    |                      | 58.2                        |
| 131+20                  | 47.2                        |        |               |                         | 150+15                  |                    |                      | 58.6                        |
| 2+10                    | 47.2                        |        |               |                         | 1+18                    |                    |                      | 59.6                        |
| 3+80                    | 48.3                        |        |               |                         | 1+18 OUTLET 18" C.M.    |                    |                      | 59.1                        |
| 4+68 - DUTLET 36" CONC. | 48.68                       |        |               |                         | 1+40 & Co. Rd. "B"      |                    |                      | 64.7                        |
| 5+30 & S.T.H. #36       | 59.5                        |        |               |                         | 1+68 INLET 18" C.M.     |                    |                      | 59.8                        |
| 5+80 INLET 36" CONC.    | 49.56                       |        |               |                         |                         |                    |                      |                             |
| 6+40                    | 49.8                        |        |               |                         |                         |                    |                      |                             |
| 7+50                    | 51.2                        |        |               |                         |                         |                    |                      |                             |
| 8+40                    | 52.1                        |        |               |                         |                         |                    |                      |                             |
| 9+90                    | 52.7                        |        |               |                         |                         |                    |                      |                             |
| 142+00                  | 53.9                        |        |               |                         |                         |                    |                      |                             |
| 3+10                    | 54.7                        |        |               |                         |                         |                    |                      |                             |
| 4+60                    | 55.2                        |        |               |                         |                         |                    |                      |                             |



