

DURKEE RD



*"Rite in the Rain"*

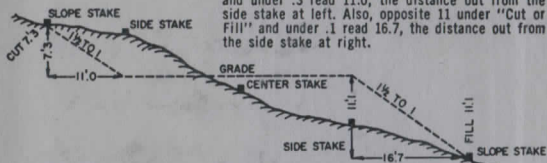
WEATHERPROOF  
LEVEL BOOK

82 0036

### DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1 1/2 to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake |      |      |      |      |      |      |      |      |      | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
|             | 0  | .1   | .2   | .3   | .4   | .5   | .6   | .7   | .8   | .9   |             |
| 0           | 0.0                                      | 0.2  | 0.3  | 0.5  | 0.6  | 0.8  | 0.9  | 1.1  | 1.2  | 1.4  | 0           |
| 1           | 1.5                                      | 1.7  | 1.8  | 2.0  | 2.1  | 2.3  | 2.4  | 2.6  | 2.7  | 2.9  | 1           |
| 2           | 3.0                                      | 3.2  | 3.3  | 3.5  | 3.6  | 3.8  | 3.9  | 4.1  | 4.2  | 4.4  | 2           |
| 3           | 4.5                                      | 4.7  | 4.8  | 5.0  | 5.1  | 5.3  | 5.4  | 5.6  | 5.7  | 5.9  | 3           |
| 4           | 6.0                                      | 6.2  | 6.3  | 6.5  | 6.6  | 6.8  | 6.9  | 7.1  | 7.2  | 7.4  | 4           |
| 5           | 7.5                                      | 7.7  | 7.8  | 8.0  | 8.1  | 8.3  | 8.4  | 8.6  | 8.7  | 8.9  | 5           |
| 6           | 9.0                                      | 9.2  | 9.3  | 9.5  | 9.6  | 9.8  | 9.9  | 10.1 | 10.2 | 10.4 | 6           |
| 7           | 10.5                                     | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7           |
| 8           | 12.0                                     | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8           |
| 9           | 13.5                                     | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9           |
| 10          | 15.0                                     | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10          |
| 11          | 16.5                                     | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11          |
| 12          | 18.0                                     | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12          |
| 13          | 19.5                                     | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13          |
| 14          | 21.0                                     | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14          |
| 15          | 22.5                                     | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15          |
| 16          | 24.0                                     | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16          |
| 17          | 25.5                                     | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17          |
| 18          | 27.0                                     | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18          |
| 19          | 28.5                                     | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19          |
| 20          | 30.0                                     | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20          |
| 21          | 31.5                                     | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21          |
| 22          | 33.0                                     | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22          |
| 23          | 34.5                                     | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23          |
| 24          | 36.0                                     | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24          |
| 25          | 37.5                                     | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25          |
| 26          | 39.0                                     | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26          |
| 27          | 40.5                                     | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27          |
| 28          | 42.0                                     | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28          |
| 29          | 43.5                                     | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29          |
| 30          | 45.0                                     | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30          |
| 31          | 46.5                                     | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31          |
| 32          | 48.0                                     | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32          |
| 33          | 49.5                                     | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33          |
| 34          | 51.0                                     | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34          |
| 35          | 52.5                                     | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35          |
| 36          | 54.0                                     | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36          |
| 37          | 55.5                                     | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37          |
| 38          | 57.0                                     | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38          |
| 39          | 58.5                                     | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39          |
| 40          | 60.0                                     | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40          |

Durkee Road

Survey -

Objective: To Research  
and establish the  
township intersections  
of Burton - Middlefield -  
Charlton - Huntsburg

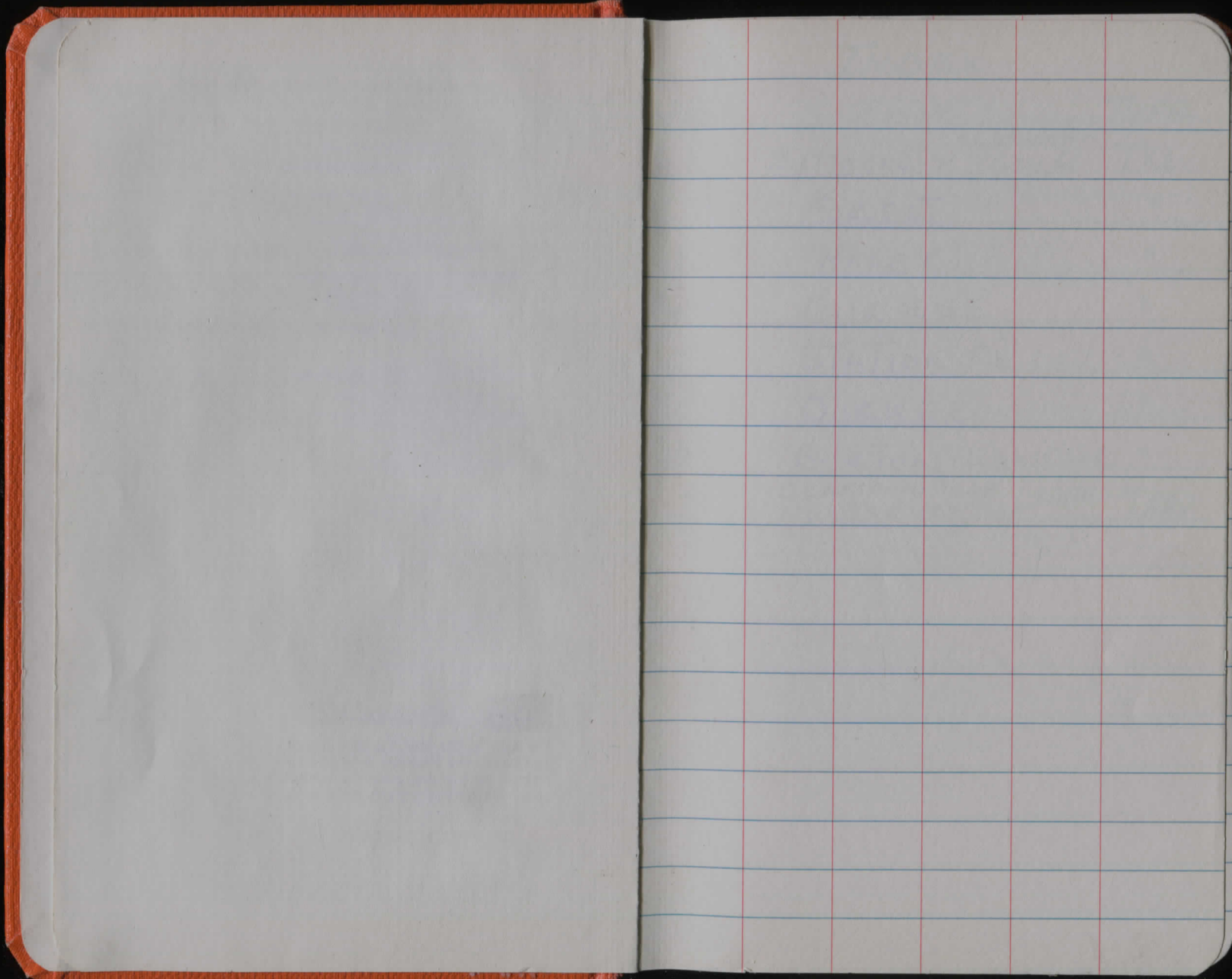
Project time - begin - 2-84  
completion -



"Rite in the Rain"

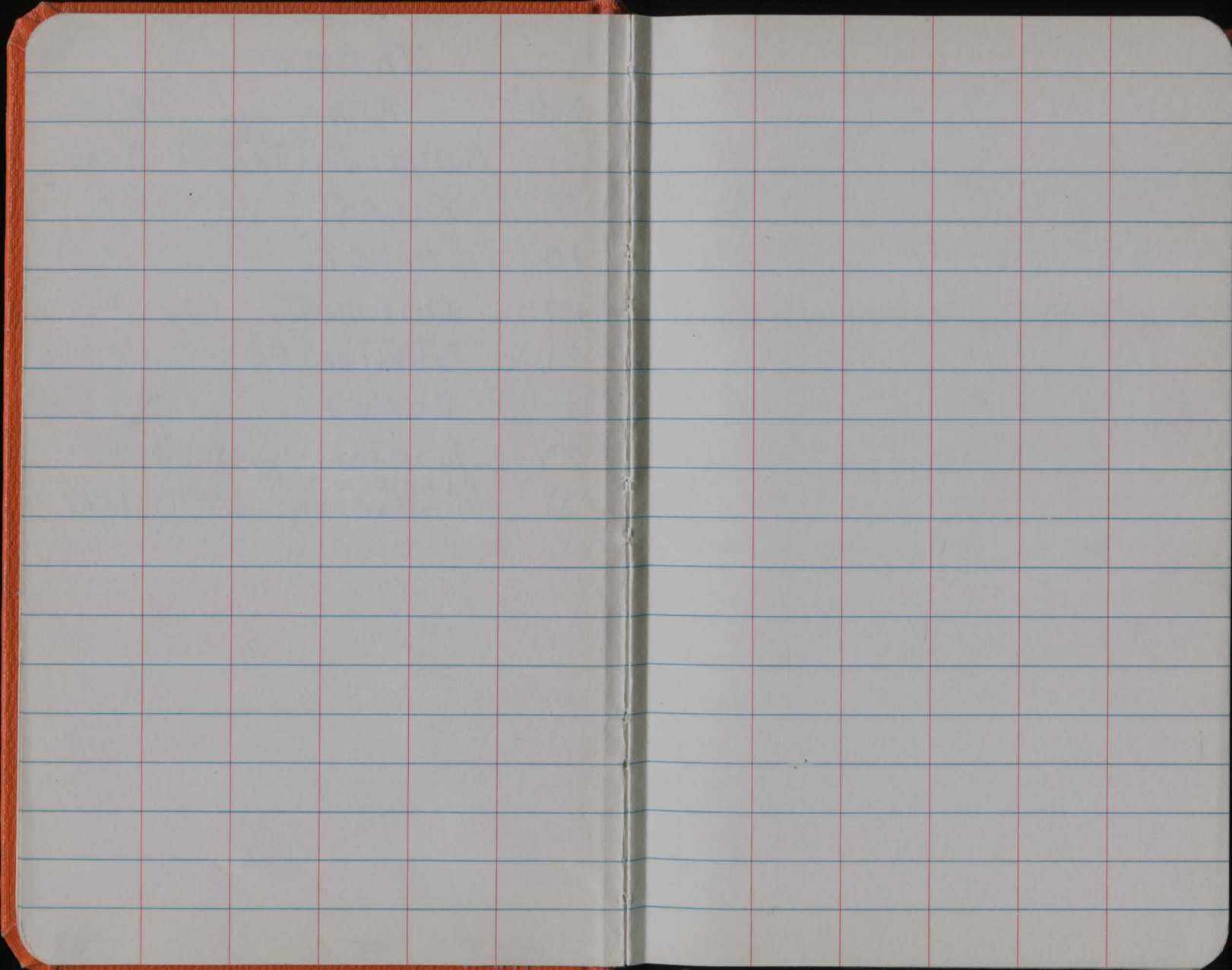
The paper in this book has been treated by an exclusive chemical waterproofing process. Wet or dry, even the hardest pencil will produce a clean, sharp mark.

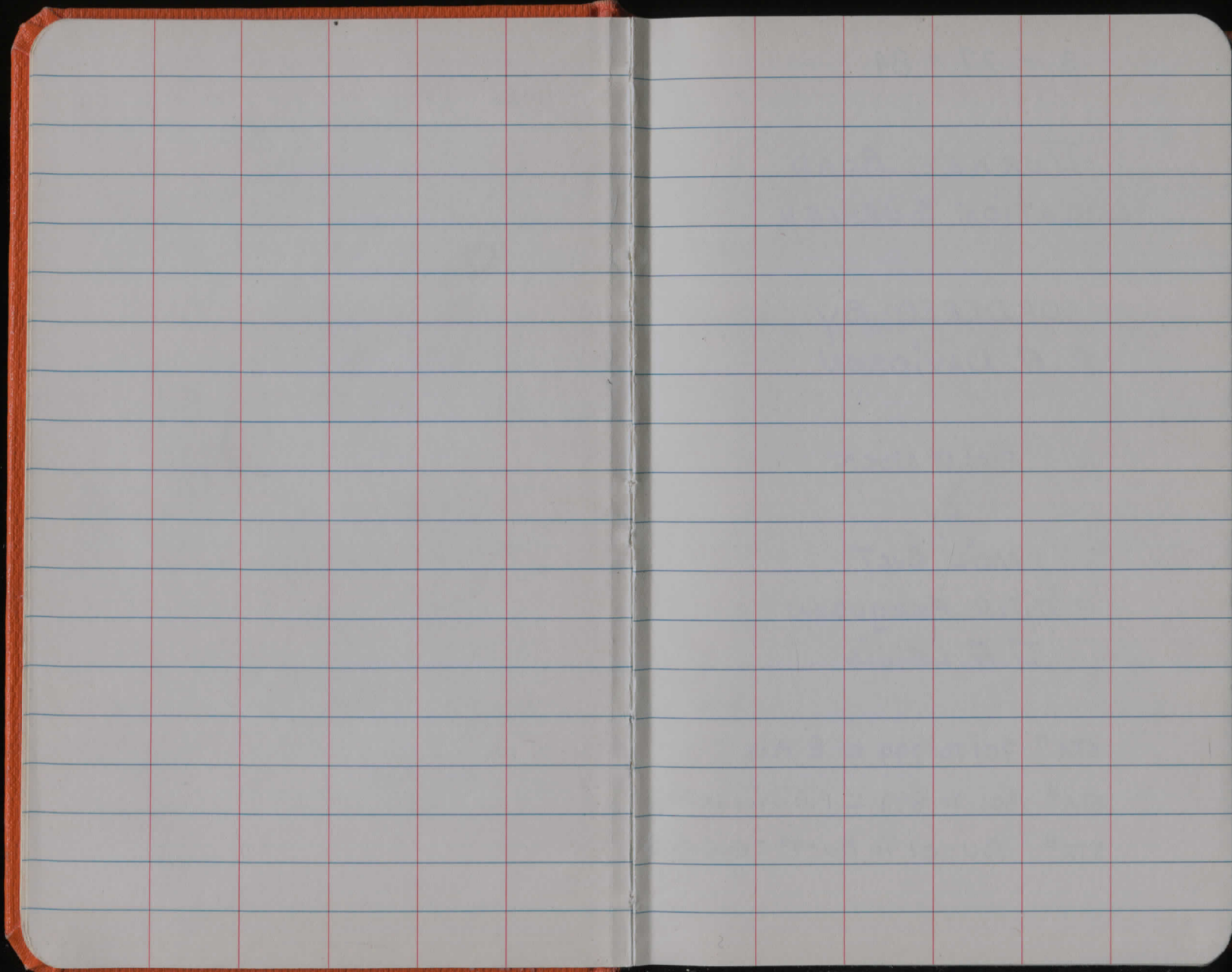
KEUFFEL & ESSER CO.



# INDEX

| PAGE | ROAD   | TYPE |
|------|--|------|
| 1    | BUTTERNUT + TROY RD<br><small>CLARIDON</small> | TRAV |
| 7    | FOREST   | "    |
| 10   | HALE RD  | "    |
| 17   | DURKEE   | "    |
| 21   | STATION RD                                     | "    |
| 23   | DURKEE   | "    |
| 29   | BURTON-WINDSOR                                 | "    |
| 31   | CLARIDON TWP<br>HUNTSBURG TWP. LINE            | TRAV |





3 - 27 - 84

TURKEE ROAD  
LOCATION SURVEY

ORDERED BY  
R. A. DAVIDSON

FIELD WORK

By

NEIL BURT

MITCH FERGUSON

J. A. LEWIS

STA# 701 TO 799 = E PINS

STA# 801 TO 899 = P.P. PINS OR PIPE

STA# BU-01 TO BU-99 = G.C.G.S

DATE 3/21/84

BUTTERNUT RD + CLARIDON-TROY

@ STA

HORZ

SET

HI

| BU-13 | AR 359 | 22 | 31.15         |      | 5.78          |
|-------|--------|----|---------------|------|---------------|
|       |        |    | 19            |      |               |
|       |        |    | 16            |      |               |
| P 00  | 00     |    | <del>03</del> | 1 52 | 6.14'         |
|       |        |    | 23            |      | 16            |
| P 359 | 21     |    | 11            |      | 21-27         |
|       |        |    | 32            | 1    | <del>27</del> |
|       |        |    | 22            |      | 22-30         |
| I 179 | 21     |    | 21            |      |               |
|       |        |    | 56            | 1 08 |               |
|       |        |    | 00            |      | 38            |
| I 180 | 00     |    | 18            | 1    |               |
|       |        |    |               |      |               |
|       | 90     | 15 | 05            | 2    |               |
|       |        |    |               |      | 38            |
|       | 89     | 37 | 43            | 2    | 22-39         |
|       |        |    |               |      | 39            |
|       | 269    | 37 | 46            | 2    |               |
|       |        |    |               |      | 40            |
|       | 270    | 15 | 06            | 2    |               |
|       |        |    |               |      |               |
|       | 180    | 30 | 17            | 3    |               |
|       |        |    |               |      | 19            |
|       | 179    | 52 | 36            | 3    | 22-26.5       |
|       |        |    |               |      | 26.5          |
|       | 359    | 52 | 47            | 3    |               |
|       |        |    |               |      | 34            |
|       | 00     | 30 | 13            | 3    |               |
|       |        |    |               |      | 21.15         |
|       |        |    |               |      | 31 95.5       |
|       |        |    |               |      | 13            |

BAR.

TEMP.

CORR.

①

To REF DIST Ft. DIST Mtr.

BU-14

3

701

TAPE 10.43'

"

STA. #701 IS  $\frac{1}{2}$ " PIN @ BUTTERNUT RD  
CLARIDON TROY RD $\frac{3}{8}$ " PIN 10.3' DEEP

BU-14

"

701

N 

"

BU-14

"

701

"

BU-14

CLARIDON  
TROY RD.

701

BU-14

BUTTERNUT RD

BU-13

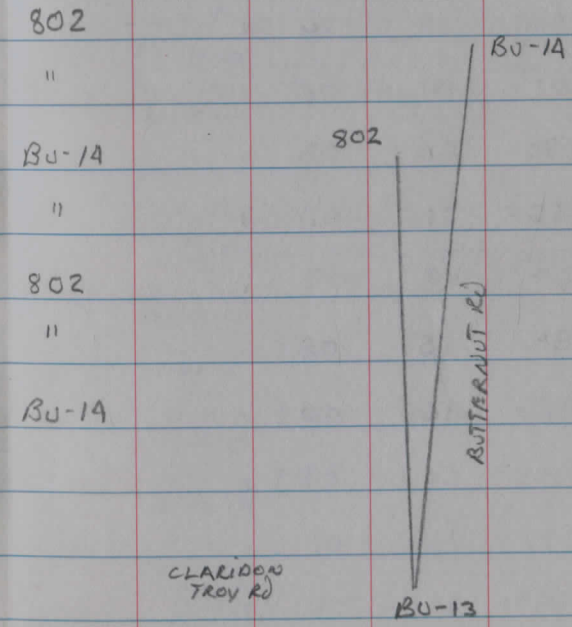
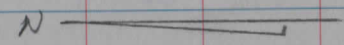


| DATE        | BUTTERNUT & CLARIDON TROY |     |      |    |              |
|-------------|---------------------------|-----|------|----|--------------|
| @ STA       | HORZ                      | SET | Ht   |    |              |
| BU-13       | AR 359                    | 23  | 21.5 |    | 5.78         |
| D 00        | 00                        | 0A  |      |    | 6.14         |
| D 359       | 23                        | 27  |      | 23 | 4.5A<br>22.5 |
| T 179       | 23                        | 27  |      |    |              |
| 89-35-A1 D  | 180                       | 00  | 05   |    | 22           |
| 270-26-15 I | 90                        | 15  | 19   | 2  | 17           |
| 89-31-36 D  | 89                        | 38  | 36   | 2  | 19           |
| 270-30-23 I | 269                       | 38  | 40   | 2  | 21           |
|             | 270                       | 15  | 19   | 2  |              |
|             | 180                       | 30  | 16   | 3  | 26           |
|             | 179                       | 53  | 42   | 3  |              |
|             | 359                       | 53  | 40   | 3  | 20           |
|             | 00                        | 30  | 20   | 3  | 64.5         |

STA # 802 24'-N. of E

| BAR. 28.15 | TEMP. 46° | CORR. 24 | (2)        |
|------------|-----------|----------|------------|
| TO         | RFC.      | DIST Ft. | DIST. MTC. |

|       |   |  |     |                           |
|-------|---|--|-----|---------------------------|
| BU-14 | 3 | 1548.21  | 471 | 902 903<br>899 898        |
| 802 N | 3 | 1464.84  | 446 | 479 487<br>482 483<br>484 |
| "     |   | STA # 802 3/4" PIPE ON N. R/W LINE BUTTERNUT RD.<br>IN W. LINE V.C. PEAIRS LAND (LOT 6)<br>BURTON TWP. TAX MAP B |     |                           |
| BU-14 |   |  |     |                           |



| 3-27-84                | BUTTERNUT RD |    |    |     |       |           |
|------------------------|--------------|----|----|-----|-------|-----------|
| @ STA                  | HORIZ        |    |    | SET | HI    |           |
| Bu-1A                  |              |    |    |     | 6.14  |           |
| 90-27-53 <sub>0</sub>  | 00           | 00 | 12 | 1   | 5.78  | 2-30-50   |
| 90-22-59               | 02           | 31 | 02 | 1   | 4.74  | 10-36-20  |
| 92-16-31               | 10           | 36 | 32 | 1   | 0.50' | 181-00-53 |
| 88-36-24               | 181          | 01 | 05 | 1   | 6.00' | 198-29-18 |
| 9A-02-24 <sub>D</sub>  | 198          | 29 | 30 | 1   | 1.50' | 00-29-17  |
| 265-59-32 <sub>I</sub> | 18           | 29 | 26 | 1   |       | 181-60-57 |
| 271-25-30              | 01           | 01 | 06 | 1   |       | 10-35-24  |
| 267-45-25              | 190          | 36 | 33 | 1   |       |           |
| 269-39-00              | 182          | 31 | 02 | 1   |       | 2-30-51   |
| 269-34-12 <sub>T</sub> | 180          | 00 | 09 | 1   |       |           |
| D 90                   | 15           | 05 |    | 2   |       | 2-30-55   |
| 92                     | 46           | 00 |    | 2   |       | 10-36-27  |
| 100                    | 51           | 32 |    | 2   |       | 181-00-56 |
| 271                    | 16           | 01 |    | 2   |       | 198-29-23 |
| D 288                  | 4A           | 28 |    | 2   |       | 198-29-19 |
| I 108                  | 4A           | 24 |    | 2   |       | 181-00-59 |
| 91                     | 16           | 04 |    |     |       |           |

| BAR 28.1 | TEMP | 50°  | COOL. +08 | (3)  |   |
|----------|------|------|-----------|------|---|
| TO STA   | REF  | DIST | FT        | DIST | MT  |
| Bu-13    | 3    | 1548 | 23        | 471  | 898 901<br>900 905  |
| 801 N    | 1    | 403  | 86        | 123  | 095 097<br>095 095  |
| 802 N    | 1    | 85   | 03        | 25   | 921 922<br>921 920  |
| Bu-15    | 3    | 2370 | 37        | 722  | 485 491<br>489 489  |
| 803 S    | 1    | 130  | 29        | 39   | 708 710<br>710 712  |
| 11       |      |      |           |      |   |
| Bu-15    |      |      |           |      | STA # 801 $\frac{3}{4}$ " PIPE N. R/W LINE OF BUTTERNUT<br>IN WEST LINE FFW C15Z LAND (LOT#6)<br>BURTON TWP TAX MAP B |
| 802      |      |      |           |      |   |
| 801      |      |      |           |      | STA # 803 TEE POST S. R/W LINE BUTTERNUT<br>IN WEST LINE W8C LUOMA LAND (LOT#6)                                       |
| Bu-13    |      |      |           |      | BURTON TWP TAX MAP B  |
| 11       |      | 270  | 15        | 05   | 02-30-53  |
| 801 N    |      | 272  | 45        | 58   | 10-36-15  |
| 802      |      | 280  | 51        | 20   |   |
| Bu-15    |      |      |           |      |   |
| 803 S    |      |      |           |      | STA # 801-2A' N. OF E   |
| 11       |      |      |           |      | STA # 803-32' S. OF E   |
| Bu-15    |      |      |           |      |   |

| 3-27-84     | BUTTERNUT RD |       |      |          |      |
|-------------|--------------|-------|------|----------|------|
| @ STA       | HORIZ        | S/E/T | HI   |          |      |
| BU-1A       |              |       | 6.14 |          |      |
|             | 00           | 00    | 13   | 1        | 6.00 |
|             |              |       |      | 00-32-57 |      |
| 89-52-06    | 00           | 33    | 10   | 1        | 5.77 |
|             |              |       |      | 07-13-43 |      |
| 93-45-12    | 07           | 13    | 56   | 1        | 4.20 |
|             |              |       |      | 07-13-41 |      |
| 8           | 187          | 13    | 52   | 1        |      |
|             |              |       |      | 00-32-57 |      |
| 270-09-51   | 180          | 33    | 08   | 1        |      |
| 2           | 180          | 00    | 11   | 1        |      |
| 2           | 90           | 15    | 12   | 2        |      |
|             |              |       |      | 00-32-58 |      |
| 2           | 90           | 48    | 10   | 2        |      |
|             |              |       |      | 07-13-57 |      |
| 2 266-16-46 | 97           | 29    | 03   | 2        |      |
|             |              |       |      | 07-13-49 |      |
| 2           | 277          | 29    | 00   | 2        |      |
|             |              |       |      | 00-32-57 |      |
|             | 270          | 48    | 08   | 2        |      |
|             | 270          | 15    | 11   | 2        |      |

| BAR 28.1 | TEMP 50 | COVE. 09 |    | (4)     |                    |
|----------|---------|----------|----|---------|--------------------|
| TO STA   | RISE    | DIST     | MT | DIST    | MT                 |
| BU-15    | —       |          |    |         |                    |
| BU-1AA   | 1       | 961      | 30 | 293     | 004 005<br>006 004 |
| 805      | 1       | 267      | 83 | 81      | 635 635<br>63A 632 |
| "        | N       | —————    |    |         |                    |
| BU-1AA   |         |          |    | BU-15   |                    |
| BU-15    |         |          |    |         |                    |
| "        |         |          |    |         |                    |
| BU-1AA   |         |          |    | BU-1A A |                    |
| 805      |         |          |    | 805 S   |                    |
| "        |         |          |    | 803     |                    |
| BU-1AA   |         |          |    | BU-1A   |                    |
| BU-15    |         |          |    | 802     |                    |
|          |         |          |    | 801     |                    |
|          |         |          |    | BU-13   |                    |

( STA# 805 TEE POST S. R/W LINE  
 BUTTERNUT RD IN E. LINE W.C. LUGMA  
 LAND LOT #6 BURTON TWP TAX MAP B )

3-27-8A

BUTTERNUT RD

| STA       | HORIZ  | SET | HI   |
|-----------|--------|-----|------|
| 805       |        |     | 4.20 |
| 86-22-55  | 00 00  | 15  | 6.04 |
| 91-04-46  | 53 51  | 30  | 0.20 |
| 268-57-03 | 233 51 | 28  | 13   |
| 273-39-03 | 180 00 | 17  | 11   |
|           | 90 15  | 13  |      |
|           | 144 06 | 27  | 14   |
|           | 324 06 | 22  | 02   |
|           | 270 15 | 20  |      |

STA# 804 - 25' N. of E

STA# 805 - 27' S. of E

BAR 28.1

TEMP 52°

COR + 8

(5)

| TO STA | REF | DIST | FT | DIST | MT                 |
|--------|-----|------|----|------|--------------------|
| BU-14  | 1   | 267  | 81 | 81   | 631 639<br>634 635 |
| 804    | 1   | 59   | 33 | 18   | 083 079<br>088 081 |

N

BU-14

"

804

"

BU-14

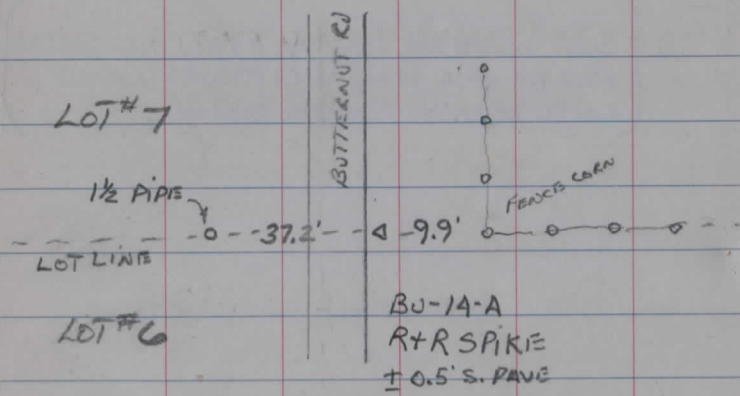
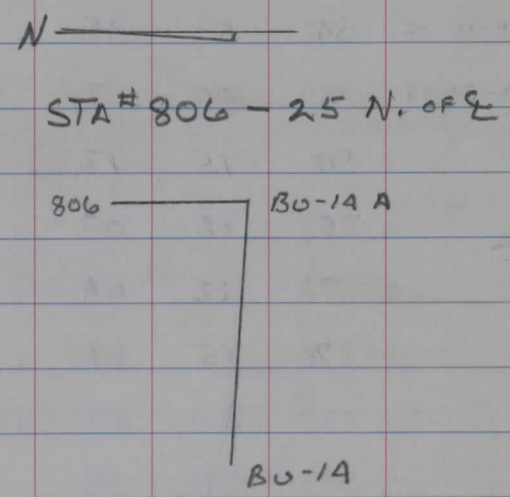
804

805

BU-14

STA# 804  $\frac{3}{4}$ " PIPE N. R/W LINE BUTTERNUT RD. IN E. LINE V.C. PEARS LAND LOT#6 BURTON TWP TAN MAP B

| 3-27-84   | BUTTERNUT RD |     |      |    | BAR 28.1 | TEMP 52 | COR +8 |     | (6)  |         |
|-----------|--------------|-----|------|----|----------|---------|--------|-----|------|---------|
| @ STA     | HORIZ        | SET | HI   |    | TOSTA    | REF     | DIST   | FT  | DIST | MT      |
| BU-1AA    | 87           | 46  | 55.5 |    |          |         |        |     |      |         |
| 90-11-39  | 00           | 00  | 17   | 59 | 6.14     | BU-1A   | 1      | 961 | 30   | 293     |
| 95-18-57  | 87           | 47  | 16   |    | 1.0      | 806     | 1      | 37  | 40   | 11      |
|           |              |     |      |    | 57.5     |         |        |     |      | 009 008 |
| 264-42-55 | 267          | 47  | 14   |    |          | "       |        |     |      | 008     |
|           |              |     |      | 56 |          |         |        |     |      | 400 400 |
| 269-50-10 | 180          | 00  | 18   |    |          | BU-1A   |        |     |      | 399 400 |
|           | 90           | 15  | 14   | 2  |          | "       |        |     |      |         |
|           |              |     |      | 53 |          |         |        |     |      |         |
|           | 178          | 02  | 07   | 2  |          | 806     |        |     |      |         |
|           |              |     |      |    | 52.5     |         |        |     |      |         |
|           | 358          | 02  | 04   | 2  |          | "       |        |     |      |         |
|           |              |     |      | 54 |          |         |        |     |      |         |
|           | 270          | 15  | 10   | 2  |          | BU-1A   |        |     |      |         |
|           |              |     |      |    |          |         |        |     |      |         |

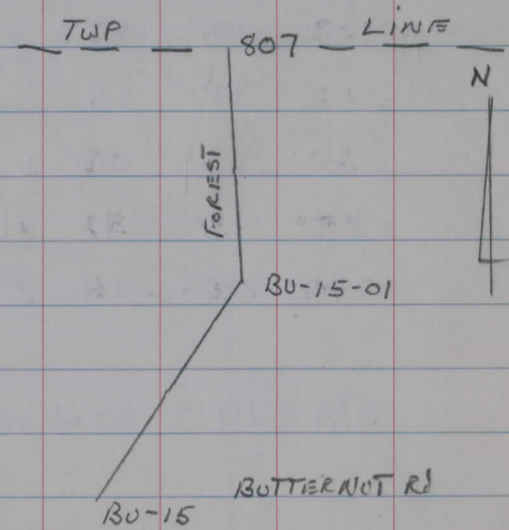


( STA # BU-1A-A R+R SPIKE  
EDGE OF PAVT. S. SIDE  
BUTTERNUT RD ± @ LOT LINE BETWEEN LOT  
# 6 + LOT # 7 BURTON TWP. )

( STA # 806 1/2" PIPE N. R/W LINE  
BUTTERNUT RD IN W. LINE EAST SPECIALTY  
CO. LAND @ LOT LINE BETWEEN LOT # 6  
+ LOT # 7 )

| 3-28-84     | FOREST RD |     |      |    | BAR 31 | TEMP 40° | COR-27          | (7) |      |         |
|-------------|-----------|-----|------|----|--------|----------|-----------------|-----|------|---------|
| @ STA       | HORIZ     | SET | HI   |    | TO STA | REF      | DIST            | FT  | DIST | MT      |
| BU-15-01    | 162       | 56  | 40.5 |    |        |          |                 |     |      |         |
| 90-39-52 o  | 00        | 00  | 08   | 1  | BU-15  | 3        | 1635            |     | 498  | 497 500 |
|             |           |     |      | 42 |        |          | <del>1635</del> | 50  |      | 501 501 |
| 90-46-40 o  | 162       | 56  | 50   | 1  | 807    | 1        | 391             | 99  | 119  | 478 479 |
|             |           |     |      |    |        |          |                 |     |      | 482 482 |
| 269-15-08 I | 342       | 56  | 45   | 1  | "      |          |                 |     |      |         |
|             |           |     |      | 41 |        |          |                 |     |      |         |
| 269-22-07 I | 180       | 00  | 03   | 1  | BU-15  |          |                 |     |      |         |
|             | 90        | 15  | 17   | 2  | "      |          |                 |     |      |         |
|             |           |     |      | 50 |        |          |                 |     |      |         |
|             | 253       | 12  | 07   | 2  | 807    |          |                 |     |      |         |
|             |           |     |      |    |        |          |                 |     |      |         |
|             | I 73      | 12  | 04   | 2  | "      |          |                 |     |      |         |
|             |           |     |      | 47 |        |          |                 |     |      |         |
|             | I 270     | 15  | 17   | 2  | BU-15  |          |                 |     |      |         |
|             |           |     |      |    |        |          |                 |     |      |         |
|             | o 180     | 30  | 17   | 3  | "      |          |                 |     |      |         |
|             |           |     |      | 41 |        |          |                 |     |      |         |
|             | o 343     | 26  | 58   | 3  | 807    |          |                 |     |      |         |
|             |           |     |      |    |        |          |                 |     |      |         |
|             | I 183     | 26  | 53   | 3  | "      |          |                 |     |      |         |
|             |           |     |      | 38 |        |          |                 |     |      |         |
|             | I 00      | 30  | 15   | 3  | BU-15  |          |                 |     |      |         |

STA # 807 1/2" REBAR E. R/W FOREST RD  
 @ TWP LINE IN S. LINE T+A BARTKO LAND  
 CLARIXON TWP TAX MAP O



| 3-28-94             |     |       |    |     |       |           |
|---------------------|-----|-------|----|-----|-------|-----------|
| @ STA               |     | HORIZ |    | SET | HL    |           |
| Bu-16               |     |       |    |     | 5.76' |           |
| 90-57-18            | 00  | 00    | 26 | 1   | 5.72  | 119-03-46 |
| 91-39-59            |     |       |    |     |       |           |
| <del>91-39-59</del> | 119 | 04    | 02 | 1   | 4.26  | 152-15-58 |
| 91-07-21            | 152 | 16    | 24 | 1   | 3.90  | 152-15-59 |
| 268-54-22           | 332 | 16    | 19 | 1   |       | 119-03-37 |
| 268-22-08           | 299 | 03    | 57 | 1   |       |           |
| 269-04-26           | 180 | 00    | 20 | 1   |       |           |
|                     | 90  | 15    | 13 | 2   |       | 03 33     |
|                     | 209 | 18    | 46 | 2   |       | 152 15-57 |
|                     | 242 | 31    | 10 | 2   |       | 16-01     |
|                     | 62  | 31    | 06 | 2   |       | 03 37     |
|                     | 29  | 18    | 42 | 2   |       |           |
|                     | 270 | 15    | 05 | 2   |       |           |

STA 810 - 30 W. OF E

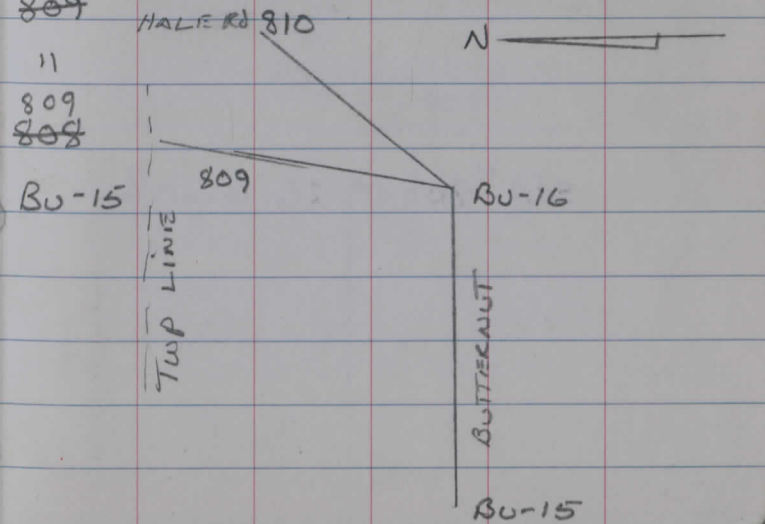
BAR 30.90 TEMP 40° COR - 26 8  
 TOSTA REF DIST FT DIST ANT

|                |   |      |    |     |         |
|----------------|---|------|----|-----|---------|
| Bu-15          | 2 | 2090 | 05 | 637 | 042 046 |
| 809            |   |      |    |     | 048 049 |
| <del>808</del> | 3 | 1569 | 01 | 478 | 238 240 |
| 810            |   |      |    |     | 235 238 |
| <del>809</del> | 1 | 1639 | 32 | 499 | 663 663 |
|                |   |      |    |     | 661     |

STA # 809 1/2" PIN ON TWP LINE BETWEEN BURTON & CLARINGTON @ N.W. OF D&L WORKMAN LAND BURTON TWP. TAX MAP C LOT # 8

|                |    |  |  |  |  |
|----------------|----|--|--|--|--|
| Bu-15          |    |  |  |  |  |
|                | 11 |  |  |  |  |
| 809            |    |  |  |  |  |
| <del>808</del> |    |  |  |  |  |
| 810            |    |  |  |  |  |
| <del>809</del> |    |  |  |  |  |

STA # 810 1/2" PIN W. R/W LINE HALF RD IN S. LINE D&L WORKMAN LAND BURTON TWP. TAX MAP C LOT # 8



3-28-84

BUTTERNUT RD

@

HORIZ

SIC

HI

TOSTA

TAPE DIST

9

BU-16

00 00 08 1 21

196 59 29 1 19.5

16 59 22 1 18

180 00 04 1 17

90 15 24 2 16

287 14 40 2 15.5

107 14 34 2 15

270 15 19 2

BU-15

808 61.35' TAPE

"

BU-15

"

808

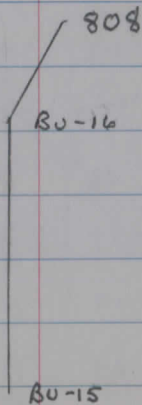
"

BU-15

STA # 808 TIE POST S. R/W LINE  
 BUTTERNUT RD IN W. LINE E.E. + L.R.  
 HALIE LAND BURTON TWP  
 TAX MAP C LOT # 8

N 

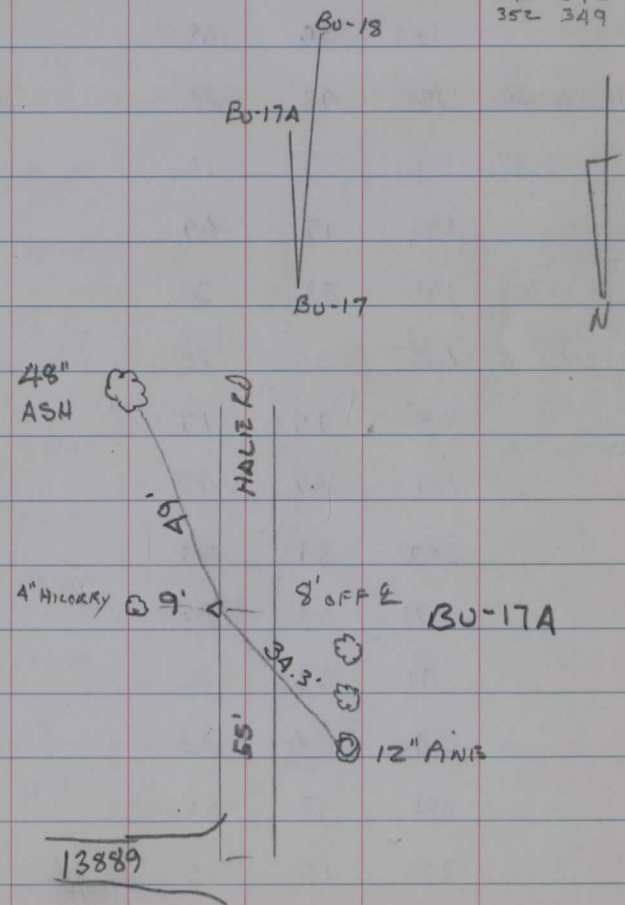
STA # 808 - 26 S. of E





| 4-3-84<br>@ | HALF RD |    | HORIZ |   | SET | HI          |
|-------------|---------|----|-------|---|-----|-------------|
| Bu-17       | 359     | 31 |       |   |     | 6.03        |
| 91-00-44    | 00      | 00 | 10    | 1 | 57  | 5.89'       |
| 92-17-54    | 359     | 32 | 07    | 1 |     | 5.63'<br>58 |
| 267-44-13   | 179     | 32 | 03    | 1 | 59  |             |
| 269-10-25   | 180     | 00 | 04    | 1 |     |             |
|             | 90      | 15 | 24    | 2 | 56  |             |
|             | 89      | 47 | 20    | 2 |     | 54          |
|             | 269     | 47 | 16    | 2 | 52  |             |
|             | 270     | 15 | 24    | 2 |     |             |
|             | 180     | 30 | 10    | 3 | 52  |             |
|             | 180     | 02 | 02    | 3 |     | 52          |
|             | 00      | 02 | 00    | 3 | 52  |             |
|             | 00      | 30 | 08    | 3 |     |             |
|             | 270     | 45 | 11    | 4 | 54  |             |
|             | 270     | 17 | 05    | 4 |     | 54.5        |
|             | 90      | 17 | 02    | 4 |     |             |
|             | 90      | 45 | 07    | 4 | 55  |             |

| BAR    | 28.45      | TEMP  | 48  | COR. + 3 | 10                                       |
|--------|------------|-------|-----|----------|--|
| TO STA | REF        | DIST. | FI. | DIST     | MT                                       |
| Bu-18  | 3          | 3844  | 79  | 1171     | 885 885<br>895 897<br>898                |
| Bu-17A | 3          | 1608  | 67  | 490      | 332 351<br>330 352<br>342 342<br>352 349 |
| "      |            |       |     | Bu-18    |  |
| Bu-18  |            |       |     | Bu-17A   |  |
| "      |            |       |     | Bu-17    |  |
| Bu-18  |            |       |     |          |  |
| "      | 48" ASH    |       |     |          |  |
| Bu-17A |            |       |     |          |  |
| "      |            |       |     |          |  |
| Bu-18  | 4" HICKORY | 9'    |     | 8' OFF E | Bu-17A                                   |
| "      |            |       |     | 34.3'    |  |
| Bu-17A |            |       |     | 55'      | 12" ANG                                  |
| "      |            |       |     |          |  |
| Bu-18  |            | 13889 |     |          |  |



A-3-84

HALE RD.

© STA

HORIZ

SET

HI

TO

BAR 25.45

TEMP 50°

COR+4

RIF

DIST

FT

DIST

MT

11

BU-17A

5.63

87-45-14

00

00

08

1

6.03

BU-17

3

1608

75

490

333 331

338 340

87-57-55

11

22

33

11-22-25

3.40

812

1

121

34

36

982 984

986 983

TAPE

154

19

48

154-19-40

814

TAPE

56.99

90-05-34

180

48

20

180-48-12

5.89

BU-18

3

2236

84

681

801 808

801 803N

269-56-35

00

48

16

1-48-06

"

TAPE

334

19

44

19-34

814

272-04-08

191

22

38

1

812

272-14-54

180

00

10

28

BU-17

811

90

15

17

2

02-26

"

101

37

43

2

19-40

812

244

34

59

2

48-07

814

271

03

24

2

BU-18

815

91

03

26

2

48-11

"

64

34

55

2

40

814

281

37

45

2

30

812

270

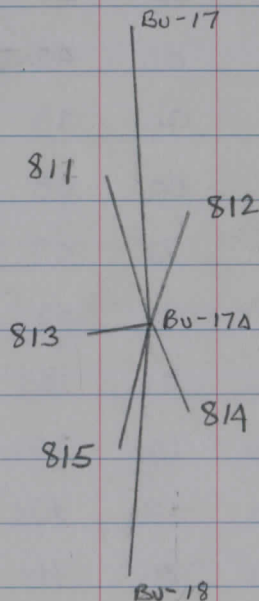
15

15

2

BU-17

BU-18



| A-3-8A<br>@ STA | HALF RD |    |    | SET | HI   |
|-----------------|---------|----|----|-----|------|
|                 | HORIZ   |    |    |     |      |
| Bu-17-A         |         |    |    |     | 5.63 |
|                 | 00      | 00 | 7A | 1   | 5.89 |
| 93-48-03        | 08      | 30 | 38 | 1   | 0.50 |
|                 | 56      | 06 | 35 | 1   |      |
| 87-49-42        | 168     | 55 | 23 | 1   | 5.08 |
| 272-12-27       | 348     | 55 | 23 | 1   |      |
|                 | 236     | 06 | 42 | 1   |      |
| 266-14-09       | 188     | 30 | 33 | 1   |      |
|                 | 180     | 00 | 08 | 1   |      |
|                 | 90      | 15 | 07 | 2   |      |
|                 | 98      | 45 | 29 | 2   |      |
|                 | 146     | 21 | 28 | 2   |      |
|                 | 259     | 10 | 16 | 2   |      |
|                 | 79      | 10 | 17 | 2   |      |
|                 | 326     | 21 | 11 | 2   |      |
|                 | 278     | 45 | 26 | 2   |      |
|                 | 270     | 15 | 08 | 2   |      |

| To    | BAR   | 28.45 | TEMP 50' | COR +A | 12                      |
|-------|-------|-------|----------|--------|-------------------------|
|       | REF   | Dist  | FT       | Dist   | FT                      |
| Bu-18 |       |       | 32'      | 77     | 517 512<br>515 514      |
| 815   | 1     | 254   |          |        |                         |
| 813   | TAPP  | 46    | 41'      |        | 049 049<br>049 047      |
| 811   | 1     | 203   | 57       | 62     |                         |
| 11    |       |       |          |        |                         |
| 813   |       |       |          |        |                         |
| 815   |       |       |          |        |                         |
| Bu-18 |       |       |          |        |                         |
| 11    |       |       |          |        |                         |
| 815   |       |       |          |        |                         |
| 813   | Bu-17 | 179   | 12       | 05     | 179-11-51<br>179 " - 57 |
| 811   | "     | 359   | 12       | 05     | 179 " - 52              |
| 11    | "     | 269   | 26       | 59     | 179 " - 49              |
| 813   | "     | 89    | 26       | 57     |                         |
| 815   |       |       |          |        |                         |
| Bu-18 |       |       |          |        |                         |

4-3-84

PR. PINS TIED IN ON HALE RD.

FROM G.C.G.S. STA<sup>#</sup> BU-17A

STA<sup>#</sup> 811 1" PIPE W. R/W LINE HALE  
RD. IN S. LINE O + M HERING'S  
LAND ± 30' W. & BURTON TAX MAP  
C

STA<sup>#</sup> 812 1/2" RE BAR E. R/W LINE HALE  
RD. IN N. LINE D. L LAFORCE'S LAND  
± 30' E. & BURTON TAX MAP C

STA<sup>#</sup> 813 1/2" PIN W. R/W LINE HALE RD  
IN S. LINE V + A HOLLO'S LAND  
± 30' W. & BURTON TAX MAP C

STA<sup>#</sup> 81A 1/2" RE BAR E. R/W LINE HALE  
RD. IN S. LINE D. L LAFORCE'S LAND  
± 30' E. & BURTON TAX MAP C

13

STA<sup>#</sup> 815 5/8" RE BAR W. R/W LINE HALE  
RD IN S. LINE W. & K. HERING'S  
LAND ± 30' W. & BURTON TAX MAP C

(FROM G.C.G.S. STA-BU-18) †

STA<sup>#</sup> 816 5/8" RE BAR W. R/W LINE HALE  
RD IN N. LINE V. & M. COLLIER'S LAND  
± 30' W. & BURTON TAX MAP C

STA<sup>#</sup> 817 5/8" RE BAR W. R/W LINE HALE  
RD IN S. LINE V + M. COLLIER'S LAND  
± 30' W. & BURTON TAX MAP C

STA<sup>#</sup> 818 5/8" RE BAR W. R/W LINE HALE  
RD IN S. LINE J. N. + K. E. POWEL'S LAND  
± 30' W. & BURTON TAX MAP C

4-3-8A

@ STA

Horiz

SET

HI

BAR 28.45

TEMP 56° corr +7

TO

REF

DIST

FT

DIST

MT 14

BU-18

89-02-30

00

00

21

6.61

BU-17

3

3844

77

1171

878 890  
881 891

89-58-04

00

20

30

00-20-09

5.63

BU-17A

3

2236

91

681

810  
767 809  
803 813

89-43-02

357

34

40

357-34-19

4.65

818

1

643

54

196

155  
156 155

89-44-52

358

17

06

358-16-45

4.80

817

1

906

47

276

296 297  
292 292

89-49-29

358

43

38

4.60

816

1

1206

24

367

666 659  
657 662  
656

270-12-46

178

43

41

11

270-17-28

178

17

03

-43

817

270-19-18

177

34

41

34-21

818

818

817

816

BU-17

270-04-22

180

20

32

00-20-12

BU-17A

BU-18

BU-17A

270-59-50

180

00

20

BU-17

N

90

15

07

11

270

15

08

2

90

35

17

00-20-10

BU-17A

270

35

16

2

20-09

87

49

29

34-22

818

267

49

28

2

34-20

88

31

55

16-48

817

268

31

53

2

16-45

43-15

88

58

24

43-17

816

↑

268

58

23

2

CONT. ON NEXT PAGE

A-3-84  
@ STA

CONT.  
HORIZ

SET

AF

TOH

BU-18

|     |    |    |   |       |
|-----|----|----|---|-------|
| 180 | 30 | 17 | 3 | -09   |
| 180 | 50 | 26 | 3 |       |
| 00  | 50 | 23 | 3 | 20-07 |
| 00  | 30 | 16 | 3 |       |
| 270 | 45 | 30 | 4 | 20-08 |
| 271 | 05 | 38 | 4 |       |
| 91  | 05 | 35 | 4 |       |
| 90  | 45 | 32 | 4 |       |

BU-17

BU-17A

11

BU-17

11

BU-17A

11

BU-17

BU-17

BU-17A

BU-18

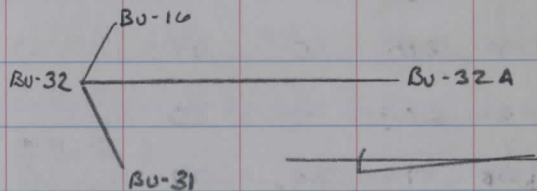
15

A-A-84  
@ STA

HALF RD. NEAR BUTTIERA JCT RD

|           | HORIZ | SET | HI   |
|-----------|-------|-----|------|
| BU-32     |       |     | 5.44 |
| 89-19-00  | 00    | 15  | 5.30 |
| 90-40-28  | 83    | 25  | 6:03 |
| 90-59-14  | 130   | 06  |      |
| 269-03-01 | 310   | 03  |      |
| 269-21-41 | 263   | 16  |      |
| 270-43-14 | 180   | 12  |      |
|           | 90    | 10  |      |
|           | 173   | 15  |      |
|           | 221   | 59  |      |
|           | 41    | 55  |      |
|           | 353   | 09  |      |
|           | 270   | 11  |      |
|           | 180   | 06  |      |
|           | 263   | 13  |      |
|           | 311   | 00  |      |

| TOSTA  | REF | DIST | FT | corr. +4 | MT                        |
|--------|-----|------|----|----------|---------------------------|
|        |     |      |    |          | 16                        |
| BU-16  | 1   | 1475 | 50 | 449      | 745 744<br>743 752        |
| BU-32A | 1   | 1564 | 61 | 476      | 910 911<br>911 911        |
| BU-31  | 3   | 2428 | 83 | 740      | 321 334<br>323 331<br>331 |
| "      |     |      |    |          |                           |
| BU-32  |     |      |    |          |                           |
| BU-32A |     |      |    |          |                           |
| BU-16  |     |      |    |          |                           |
| "      | 90  | 45   | 05 | A        |                           |
| BU-32A | 173 | 57   | 07 | A        | -12-02                    |
| BU-31  | 221 | 37   | 54 | A        | -52-49                    |
| "      | 41  | 37   | 56 | A        | -52-47                    |
| BU-32A | 353 | 57   | 13 | A        | 83-12-04                  |
| BU-16  | 270 | 45   | 09 | A        |                           |
| "      | 00  | 30   | 05 | 3        |                           |
| BU-32A | 83  | 42   | 06 | 3        | 83-12-01                  |
| BU-31  | 131 | 22   | 57 | 3        | 130-52-52                 |



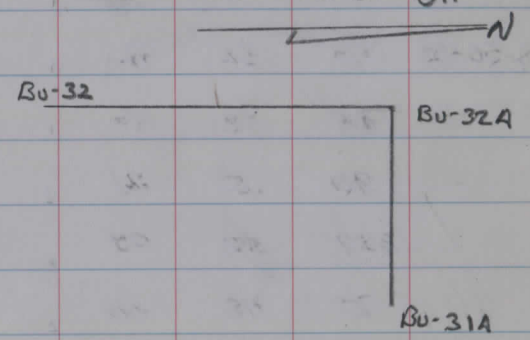
| 4-4-84    | DURKEE RD @ HALERD |    |     |           | HJ        |
|-----------|--------------------|----|-----|-----------|-----------|
| ② STA     | HORIZ              |    | SET |           |           |
| BU-32A    |                    |    |     |           | 6.03      |
| 89-22-42  | 00                 | 00 | 13  | 1         | 5.44      |
|           |                    |    |     | "-12-47   |           |
| 89-31-41  | 11                 | 12 | 50  | 1         | 0.50      |
|           |                    |    |     | 101-53-59 |           |
| 92-20-38  | 101                | 54 | 12  | 1         | 0.50      |
| 90-57-35  | 260                | 20 | 27  | 1         | 4.83      |
|           |                    |    |     | 760-20-10 |           |
| 269-04-41 | 80                 | 20 | 20  | 1         |           |
|           |                    |    |     | 101-53-59 |           |
| 267-41-31 | 281                | 54 | 09  | 1         |           |
|           |                    |    |     | 191-12-38 |           |
| 270-30-30 | 191                | 12 | 48  | 1         |           |
| 270-39-30 | 180                | 00 | 10  | 1         |           |
|           | 90                 | 15 | 01  | 2         |           |
|           | 101                | 27 | 37  | 2         | "-12-36   |
|           | 192                | 08 | 56  | 2         | -53-55    |
|           | 350                | 35 | 12  | 2         | 260-20-11 |
|           | 170                | 35 | 09  | 2         | 2-10      |
|           | 12                 | 08 | 54  | 2         | A-55      |
|           | 281                | 27 | 37  | 2         | 12-38     |
|           | 270                | 14 | 59  | 2         |           |

| BAR 28.2 | TEMP 52°   | COR +7 |      |     |         |
|----------|--|--------|------|-----|---------|
| REF      | DIST   | FT     | DIST | MT  | (17)    |
| BU-32    | 3  | 1564   | 64   | 476 | 905 902 |
|          |  |        |      |     | 900 898 |
| 819      | 1  | 276    | 04   | 84  | 138 142 |
|          |  |        |      |     | 140 142 |
| 820      | 1  | 131    | 93   | 40  | 213 215 |
|          |  |        |      |     | 214 215 |
| 821      | 1  | 217    | 00   | 66  | 143 143 |
|          |  |        |      |     | 142 146 |
| 11       | (STA # 819 1/2 RE-BAR W.R/W LINE HALERD<br>IN N. LINE D+L WORKMAN'S LAND<br>BURTON TAX MAP C LOT #8) |        |      |     |         |
| 820      |  |        |      |     |         |
| 819      |  |        |      |     |         |
| BU-32    | STA # 820 1/2" PIPE  |        |      |     |         |
| 11       |  |        |      |     |         |
| 819      |  |        |      |     |         |
| 820      |  |        |      |     |         |
| 821      |  |        |      |     |         |
| 11       |  |        |      |     |         |
| 820      |  |        |      |     |         |
| 819      |  |        |      |     |         |
| BU-32    |  |        |      |     |         |



| A-A-8A<br>@ STA | DURKEE RD |     |    |               | HI      |
|-----------------|-----------|-----|----|---------------|---------|
|                 | HORIZ     | SET |    |               |         |
| BU-32A          |           |     |    |               | 6.03    |
|                 | 00        | 00  | 14 |               | 5.44    |
| 90-24-45        | 267       | 30  | 06 | 30-52<br>30.5 | 5.47    |
| 269-37-25       | 87        | 30  | 0A |               |         |
|                 |           |     |    | 49            |         |
|                 | 180       | 00  | 15 |               |         |
|                 | 90        | 15  | 16 |               |         |
|                 |           |     |    | 49            |         |
|                 | 357       | 45  | 05 |               |         |
|                 |           |     |    | 47            |         |
|                 | 177       | 45  | 02 |               |         |
|                 |           |     |    | 45            |         |
|                 | 270       | 15  | 17 |               |         |
|                 |           |     |    |               |         |
|                 | 180       | 30  | 15 |               |         |
|                 |           |     |    | 48            |         |
|                 | 88        | 00  | 03 |               |         |
|                 |           |     |    | 46.5          |         |
|                 | 268       | 00  | 02 |               |         |
|                 |           |     |    |               |         |
|                 | 00        | 30  | 17 |               | 45      |
|                 |           |     |    |               |         |
|                 | 270       | 45  | 12 |               |         |
|                 |           |     |    |               |         |
|                 | 178       | 15  | 04 |               | 48      |
|                 |           |     |    | 48.5          |         |
|                 | 358       | 15  | 01 |               |         |
|                 |           |     |    |               |         |
|                 | 90        | 45  | 12 |               | 49      |
|                 |           |     |    |               |         |
|                 |           |     |    |               | 48.375° |

| TOSA   | REF | DIST | FT | DIST | MT             |
|--------|-----|------|----|------|----------------|
|        |     |      |    |      | 18             |
| BU-32  |     |      |    |      |                |
| BU-31A | 1   | 958  | 05 | 292  | 011 011<br>011 |
| "      |     |      |    |      | N              |
| BU-32  |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-31A |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-32  |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-31A |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-32  |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-31A |     |      |    |      |                |
| "      |     |      |    |      |                |
| BU-32  |     |      |    |      |                |



A-A-8A

DURKIE RD

@ STA

Horiz

SET

HI

BAR. 28.1

TEMP. 52° corr. +9

TO

REF

DIST

FT

DISI

MT

19

BU-31A

5.47'

89-40-04

00

00

06

6.03'

BU-32A

1

958

00

292

291

000

992

002

997

995

91-11-29

180

32

45

6.16

BU-31

1

839

31

255

821

821

268-50-53

00

32

42

36

"

BU-32A

N

270-22-17

180

00

06

BU-32A

90

15

21

2

"

270

48

04

43

BU-31

BU-31A

90

48

00

2

"

270

15

23

2

37

BU-32A

180

30

25

3

"

01

03

05

3

40

BU-31

181

03

02

3

40

"

00

30

22

3

BU-32A

270

45

08

4

41

"

BU-31A

91

17

49

A

BU-31

7' N. of G

271

17

45

A

180-32-36

"

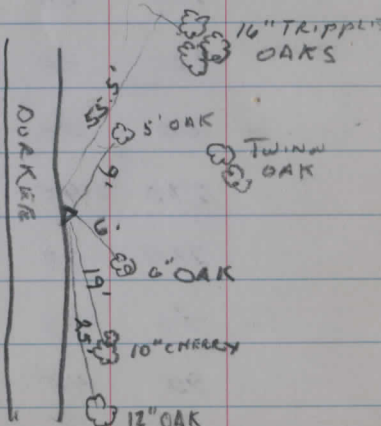
90

45

09

A

BU-32A



DURKIE RD

16" TRIPPLE OAKS

5' OAK

TWINN OAK

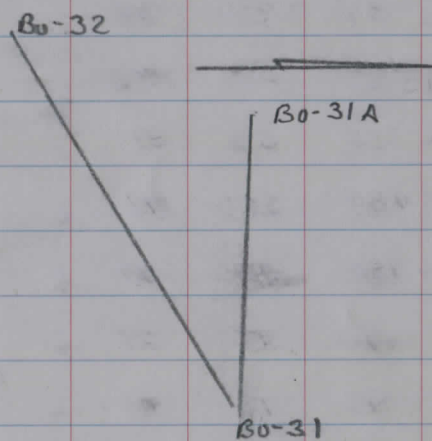
6' OAK

10" CHERRY

12" OAK

| A-A-84    | DURKEE RD. |    |    | SET | HI    |
|-----------|------------|----|----|-----|-------|
| @ STA     | HORIZ      |    |    |     | 6.16' |
| BU-31     |            |    |    |     |       |
| 88-53-55  | 00         | 00 | 09 | 1   |       |
|           | 319        | 38 | 25 | 1   | 16    |
|           | 139        | 38 | 23 | 1   |       |
|           |            |    |    |     | 17    |
| 271-08-27 | 180        | 00 | 06 | 1   |       |
|           | 90         | 15 | 14 | 2   |       |
|           | 49         | 53 | 32 | 2   | 18    |
|           | 229        | 53 | 33 | 2   |       |
|           | 270        | 15 | 14 | 2   | 19    |
|           | 180        | 30 | 12 | 3   |       |
|           | 140        | 08 | 25 | 3   | 13    |
|           | 320        | 08 | 23 | 3   |       |
|           | 00         | 30 | 08 | 3   | 15    |
|           | 270        | 45 | 12 | 4   |       |
|           | 230        | 23 | 33 | 4   | 21    |
|           | 50         | 23 | 30 | 4   |       |
|           | 90         | 45 | 11 | 4   | 19    |

| TO     | BAR. 28.05 | TEMP 50° | Corr. +8 |      |                    |
|--------|------------|----------|----------|------|--------------------|
|        | REF        | DIST     | FT       | DIST | MT 20              |
| BU-31A | 1          | 839      | 32       | 255  | 818 823<br>814 820 |
| BU-32  | BU-32      |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-31A |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-32  |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-31A |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-32  |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-31A |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-32  |            |          |          |      |                    |
| "      |            |          |          |      |                    |
| BU-31A |            |          |          |      |                    |

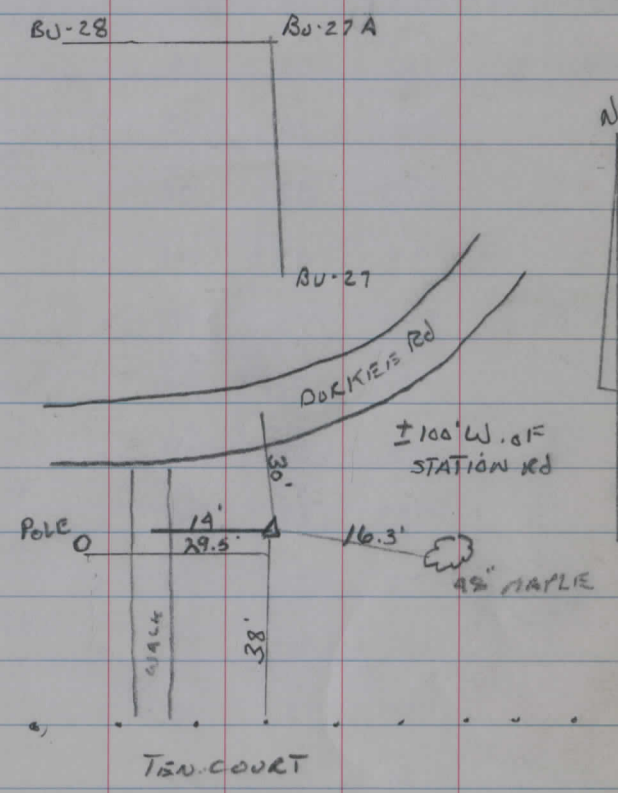




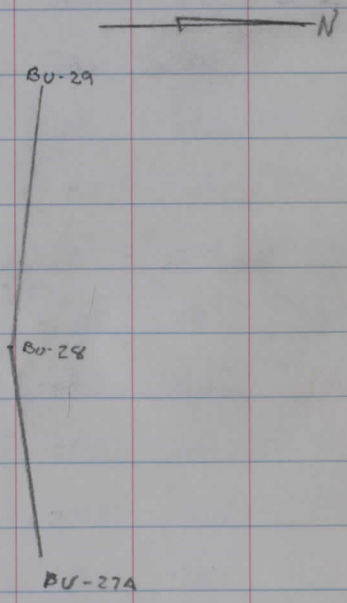


| DATE      | DURKEE ROAD |    |    | SET           | H.I. |
|-----------|-------------|----|----|---------------|------|
| STA.      | HORIZ       |    |    |               |      |
| BU-27A    |             |    |    |               | 5.32 |
| 91-03-40  | 00          | 00 | 32 | 1<br>90-29-25 | 5.76 |
| 90-23-03  | 90          | 29 | 57 | 1             | 5.84 |
| 269-39-14 | 270         | 30 | 00 | 1             |      |
| 268-58-42 | 180         | 00 | 35 | 1 25          |      |
|           | 90          | 15 | 13 | 2             |      |
|           | 180         | 44 | 41 | 2             |      |
|           | 00          | 44 | 43 | 2 23          |      |
|           | 270         | 15 | 20 | 2             |      |
|           | 180         | 30 | 09 | 3 26          |      |
|           | 270         | 59 | 35 | 3             |      |
|           | 90          | 59 | 37 | 3<br>90-29-25 |      |
|           | 00          | 30 | 13 | 3             |      |
|           | 270         | 45 | 14 | 4 -27         |      |
|           | 01          | 14 | 41 | 4             |      |
|           | 181         | 14 | 39 | 4 23          |      |
|           | 90          | 45 | 16 | 4             |      |

|       |       | Bar. 28.7 Temp. 63° CORR 79 |     |         |                               |
|-------|-------|-----------------------------|-----|---------|-------------------------------|
| TO    | REF   | DIST                        | FT. | DIST    | MT. 23                        |
| BU-27 | 3     | 1504                        | 91  | 458     | 732 737<br>727 740<br>738 741 |
| BU-28 | 1     | 607                         | 00  | 185     | 017 017<br>020 023            |
| "     |       |                             |     |         |                               |
| BU-27 | BU-28 |                             |     | BU-27 A |                               |
| "     |       |                             |     |         |                               |
| BU-28 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-27 |       |                             |     | BU-27   |                               |
| "     |       |                             |     |         |                               |
| BU-28 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-27 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-28 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-27 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-28 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-27 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-28 |       |                             |     |         |                               |
| "     |       |                             |     |         |                               |
| BU-27 |       |                             |     |         |                               |



| A-10-8A   |     | DURKIEE RD.         |                     | BAR 28.6 |      | TEMP 54° |     | COR. +4 |    |      |                           |
|-----------|-----|---------------------|---------------------|----------|------|----------|-----|---------|----|------|---------------------------|
| @ STA     |     | HORIZ               |                     | SFT      | HI   | To STA   | REF | DIST.   | FT | DIST | WT 29                     |
| Bu-28     |     |                     |                     |          | 5.85 |          |     |         |    |      |                           |
| 89-41-16  | 00  | 00                  | 15                  | 1        | 5.70 | Bu-27A   | 1   | 606     | 98 | 185  | 020 013<br>015 021        |
| 87-59-10  | 183 | 28                  | 03                  | 1        | 5.87 | Bu-29    | 1   | 691     | 81 | 210  | 858 862<br>869 867<br>863 |
| 272-08-02 | 03  | 28                  | 06                  | 1        |      | "        |     |         |    |      |                           |
| 270-20-56 | 180 | 00                  | 14                  | 1        |      | Bu-27A   |     |         |    |      |                           |
|           | 90  | 15                  | 13                  | 2        |      | "        |     |         |    |      |                           |
|           | 273 | 43                  | 02                  | 2        |      | Bu-29    |     |         |    |      |                           |
|           | 93  | 43                  | 05                  | 2        |      | "        |     |         |    |      |                           |
|           | 270 | 15                  | 16                  | 2        |      | Bu-27A   |     |         |    |      |                           |
|           | 180 | 30                  | <del>06</del><br>26 | 3        |      | "        |     |         |    |      |                           |
|           | 03  | <del>57</del><br>58 | <del>51</del><br>09 | 3        |      | Bu-29    |     |         |    |      |                           |
|           | 183 | <del>57</del><br>58 | <del>56</del><br>15 | 3        |      | "        |     |         |    |      |                           |
|           | 00  | 30                  | <del>07</del><br>25 | 3        |      | Bu-27A   |     |         |    |      |                           |
|           | 270 | 45                  | 23                  | 4        |      | "        |     |         |    |      |                           |
|           | 9A  | 13                  | 10                  | 1        |      | Bu-29    |     |         |    |      |                           |
|           | 27A | 13                  | 11                  | 1        |      | "        |     |         |    |      |                           |
|           | 90  | 45                  | 21                  | 1        |      | Bu-27A   |     |         |    |      |                           |







| A | DATE      | DURKIE RD |     |    |           | HI        | TOSTA  | REF | DIST | FT | DIST | MT | 26      |
|---|-----------|-----------|-----|----|-----------|-----------|--------|-----|------|----|------|----|---------|
| @ | STA       | HORIZ     | SET |    |           |           |        |     |      |    |      |    |         |
|   | Bu-29     |           |     |    |           | 5.87      |        |     |      |    |      |    |         |
|   |           | 0 00      | 00  | 09 | 1         | 5.85      | Bu-28  |     |      |    |      |    |         |
|   |           |           |     |    | 177-40-19 |           |        |     |      |    |      |    | 656 656 |
|   | 91-24-28  | 0 177     | 40  | 28 | 1         | 0.20      | H.W.S. | 1   | 64   | 65 | 16   |    | 655     |
|   |           |           |     |    | 191-53-04 |           |        |     |      |    |      |    | 469 449 |
|   | 88-11-47  | 1 191     | 53  | 13 | 1         |           | 822    | 1   | 149  | 12 | 45   |    | 451 448 |
|   |           |           |     |    | 200-22-09 |           |        |     |      |    |      |    | 478 473 |
|   | 91-03-20  | 1 200     | 22  | 50 | 1         | .20       | H.W.N. | 1   | 60   | 60 | 18   |    | 466 479 |
|   |           |           |     |    |           |           |        |     |      |    |      |    | 476     |
|   | 268-89-05 | 20        | 22  | 49 | 1         | 38        | "      |     |      |    |      |    |         |
|   |           |           |     |    |           |           |        |     |      |    |      |    |         |
|   | 271-50-39 | 11        | 52  | 59 | 1         | -52-98    | 822    |     |      |    |      |    | 822     |
|   |           |           |     |    |           |           |        |     |      |    |      |    |         |
|   | 268-37-55 | 357       | 40  | 25 | 1         | 177-00-14 | H.W.S. |     |      |    |      |    |         |
|   |           | 180       | 00  | 11 | 1         |           | Bu-28  |     |      |    |      |    |         |
|   |           | 90        | 15  | 19 | 2         |           | "      |     |      |    |      |    |         |
|   |           |           |     |    |           | 13        |        |     |      |    |      |    |         |
|   |           | 267       | 55  | 32 | 2         |           | H.W.S. |     |      |    |      |    |         |
|   |           |           |     |    |           | 45        |        |     |      |    |      |    |         |
|   |           | 282       | 08  | 04 | 2         |           | 822    |     |      |    |      |    |         |
|   |           |           |     |    |           | 37        |        |     |      |    |      |    |         |
|   |           | 290       | 37  | 56 | 2         |           | H.W.N. |     |      |    |      |    |         |
|   |           |           |     |    |           |           | "      |     |      |    |      |    |         |
|   |           | 110       | 37  | 59 | 2         | 39        |        |     |      |    |      |    |         |
|   |           | 102       | 08  | 02 | 2         | 47        | 822    |     |      |    |      |    |         |
|   |           | 87        | 55  | 28 | 2         | 13        | H.W.S. |     |      |    |      |    |         |
|   |           |           |     |    |           |           |        |     |      |    |      |    |         |
|   |           | 270       | 15  | 15 | 2         |           | Bu-28  |     |      |    |      |    |         |

BAR. 29.6 TEMP 58° COR. +7

STONE HD.WL.  
S. SIDE DURKIE

H.W.S.

H.W.N.  
STONE HD.WL.  
S. SIDE DURKIE

Bu-28



PA-10-8A

DURKRAE Rd.

⊙ STA

HORIZ

SRT

HI

BU-30

5.89'

94-44-19

00

00

04

5.87'

87-27-22

172

56

37

36 5.95'

177-56-33

38

272-34-59

357

56

40

265-18-17

180

00

01

90

15

22

25

268

11

47

28

88

11

49

32

270

15

07

180

30

04

29

358

26

33

34

178

26

39

37

00

30

00

270

45

06

31

88

41

37

32

268

41

34

33

90

45

01

BAR 28.5

TEMP 60'

COR. +10

TOSTA

REF

DIST

I-T

DIST

MT

27

BU-29

857

98

261

567 531

537 569<sup>545</sup> 541

BU-31

845

60<sup>63</sup>


257

762 770

752 782

767 744

755 738

N 

BU-29

BU-29

BU-29

BU-31

"

BU-29

"

BU-30

BU-31

"

BU-29

"

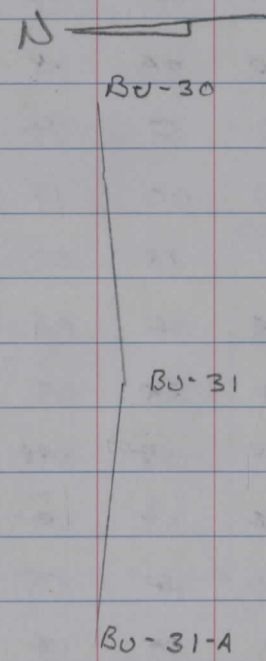
BU-31

BU-31

"

BU-29

| STA         | DURKEE | HORIZ                  | SET                    | H.I. | BAR 28.4   |        | TEMP | 54° | CORR. +5 |         | 28  |
|-------------|--------|------------------------|------------------------|------|------------|--------|------|-----|----------|---------|-----|
|             |        |                        |                        |      | TO STA     | REF    | DIST | FT  | DIST     | MT      |     |
| 1 BU-31     |        |                        |                        |      | 5.95       |        |      |     |          |         |     |
| 92-38-11    | 00     | 00                     | 18                     | 1    | 5.89       | BU-30  | 845  | 65  | 257      | 738     | 759 |
| 88-51-22    | 181    | 39                     | 06                     | 1    | 5.93'      | BU-31A | 839  | 30  | 255      | 825     | 823 |
| 2 271-10-51 | 01     | 39                     | 08                     | 1    | 58         | "      |      |     |          | 819     | 815 |
| 2 267-24-00 | 180    | 00                     | 10                     | 1    |            | BU-30  |      |     |          |         |     |
|             | 90     | 15                     | 06                     | 2    |            | "      |      |     |          |         |     |
|             | 271    | 53                     | 55                     | 2    | 49         | BU-31A |      |     |          |         |     |
|             | 91     | 53                     | 57                     | 2    | 51         | "      |      |     |          |         |     |
|             | 270    | 15                     | 06                     | 2    |            | BU-30  |      |     |          |         |     |
|             | 180    | 30                     | 16 <sup>18</sup><br>24 | 3    | 43         | "      |      |     |          | BU-31   |     |
|             | 02     | 08<br>09 <sup>09</sup> | 56 <sup>01</sup><br>02 | 3    | 40         | BU-31A |      |     |          |         |     |
|             | 182    | 09                     | 04<br>00               | 3    | 45<br>52   | "      |      |     |          |         |     |
|             | 00     | 30                     | 08<br>15 <sup>11</sup> | 3    | 53         | BU-30  |      |     |          |         |     |
|             | 270    | 45                     | 16                     | 4    |            | "      |      |     |          | BU-31-A |     |
|             | 92     | 24                     | 01                     | 4    | 45<br>49.5 | BU-31A |      |     |          |         |     |
|             | 272    | 24                     | 04                     | 4    | 54         | "      |      |     |          |         |     |
|             | 90     | 45                     | 10                     | 4    |            | BU-30  |      |     |          |         |     |

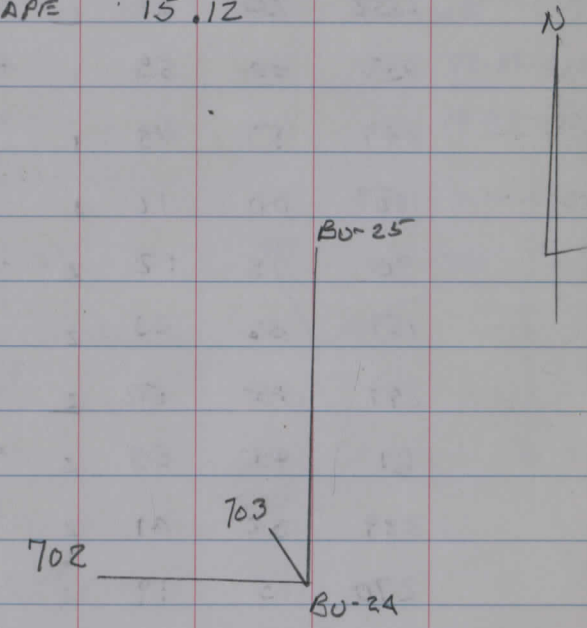


A-11-8A BURTON WINDSOCK @ STATION  
 @ STA Horiz SET HI

|           |     |    |    |           |      |
|-----------|-----|----|----|-----------|------|
| BU-24     |     |    |    |           | 5.51 |
| 89-57-56  | 00  | 00 | 16 |           | 6.04 |
| 92-43-40  | 267 | 51 | 20 | 227-51-04 | 6.19 |
|           | 332 | 20 | 21 | 332-20-05 |      |
|           | 152 | 20 | 14 | 20-57     |      |
| 267-18-46 | 87  | 51 | 18 |           |      |
| 270-04-37 | 180 | 00 | 17 | 51-01     |      |
|           | 90  | 15 | 02 | 2-51-02   |      |
|           | 358 | 06 | 04 |           |      |
|           | 62  | 35 | 08 | 20-06     |      |
|           | 242 | 05 | 31 | 2-22      |      |
|           | 178 | 05 | 59 | 2-51-00   |      |
|           | 270 | 14 | 59 | 2         |      |
|           | 180 | 30 | 13 | 3         |      |
|           | 88  | 21 | 19 | 3-51-06   |      |
|           | 152 | 50 | 21 | 3-20-08   |      |
|           | 332 | 50 | 11 | 3-20-59   |      |
|           | 268 | 21 | 14 | 3-51-02   |      |
|           | 00  | 30 | 12 | 3         |      |

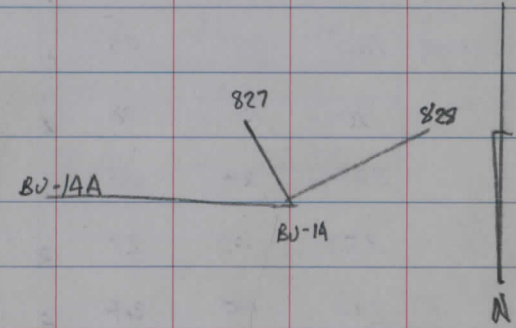
Bar. 28.5 Temp 50° corr +4

| TOSTA | REF  | PIST  | FT | DIST | DT  | EG  |
|-------|------|-------|----|------|-----|-----|
|       |      |       |    |      | 827 | 832 |
| BU-25 | 1    | 836   | 06 | 254  | 836 | 834 |
| 702   | 1    | 882   | 63 | 269  | 022 | 032 |
| 703   | TAPE | 15.12 |    |      | 023 | 023 |
| "     |      |       |    |      |     |     |
| 702   |      |       |    |      |     |     |
| BU-25 |      |       |    |      |     |     |
| "     |      |       |    |      |     |     |
| 702   |      |       |    |      |     |     |
| 703   |      |       |    |      |     |     |
| "     |      |       |    |      |     |     |
| 702   |      |       |    |      |     |     |
| BU-25 |      |       |    |      |     |     |
| "     |      |       |    |      |     |     |
| 702   |      |       |    |      |     |     |
| 703   |      |       |    |      |     |     |
| "     |      |       |    |      |     |     |
| 702   |      |       |    |      |     |     |
| BU-25 |      |       |    |      |     |     |



| Δ-11-8A<br>@ STA | BUTTERNUT RD |    |    |     |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|------------------|--------------|----|----|-----|-------|-----|--|--|--|--|--|--|--|--|--|--|--------------------|
|                  | HORIZ        |    |    | SET | HI    |     |  |  |  |  |  |  |  |  |  |  |                    |
| BU-1A            |              |    |    |     | 5.86' |     |  |  |  |  |  |  |  |  |  |  |                    |
| 89-50-40         | 00           | 00 | 13 | 1   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
| 93-18-31         | 69           | 17 | 37 | 1   | 3.16  |     |  |  |  |  |  |  |  |  |  |  | 219 221<br>223 229 |
| 91-23-16         | 159          | 30 | 54 | L   | 0.30  |     |  |  |  |  |  |  |  |  |  |  | 217 218<br>218 217 |
| 268-38-57        | 339          | 30 | 59 | 1   | 43    |     |  |  |  |  |  |  |  |  |  |  |                    |
| 266-43-49        | 249          | 17 | 43 | 1   | 27    |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 180          | 00 | 16 | 1   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 90           | 15 | 12 | 2   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 159          | 32 | 33 | 2   | 19    |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 249          | 45 | 52 | 2   | 40    | 205 |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 69           | 45 | 55 | 2   |       | 38  |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 339          | 32 | 41 | 2   | 36    |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  | 270          | 15 | 19 | 2   | 22    |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |
|                  |              |    |    | 3   |       |     |  |  |  |  |  |  |  |  |  |  |                    |

| 51<br>TOSTA | BAR 28.35<br>REF | TEMP 56<br>DISI | 56<br>I-T | 49. +9<br>DISI | MT 30 |
|-------------|------------------|-----------------|-----------|----------------|-------|
| BU-14-A     |                  |                 |           |                |       |
| 827         | 1                | 36              | 82        | 11             |       |
| 828         | 1                | 105             | 69        | 32             |       |
| 11          |                  |                 |           |                |       |
| 827         |                  |                 |           |                |       |
| BU-14A      |                  |                 |           |                |       |
| 11          |                  |                 |           |                |       |
| 827         |                  |                 |           |                |       |
| 828         |                  |                 |           |                |       |
| 11          |                  |                 |           |                |       |
| 827         |                  |                 |           |                |       |
| BU-14A      |                  |                 |           |                |       |
| 11          |                  |                 |           |                |       |
| 827         |                  |                 |           |                |       |
| 828         |                  |                 |           |                |       |
| BU-14A      |                  |                 |           |                |       |
| 828         |                  |                 |           |                |       |
| 827         |                  |                 |           |                |       |



5-10-84

Surface Rod Project  
TIE IN TWP LINE between CL+HIS<sub>9</sub>  
HORIZONTAL

Recorded: MAF  
D. LEWIS - CHIEF  
N. BURT - INSTR.  
SET H.I

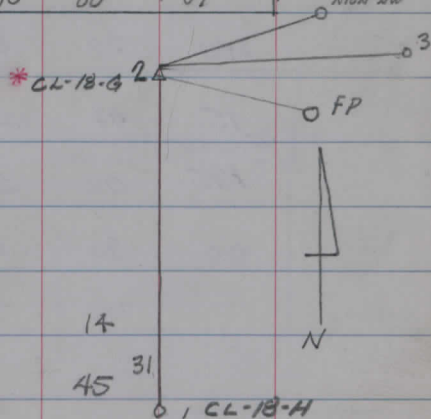
| Sta.         |     |    |    |           |      |
|--------------|-----|----|----|-----------|------|
| CL-18-G<br>2 |     |    |    |           | 5.70 |
| 90-14-39     | 00  | 00 | 15 |           | 5.20 |
| 117-38-37    | 239 | 09 | 15 | 239-09-00 |      |
| 91-01-59     | 262 | 53 | 39 | -24       | 5.20 |
| 269-00-49    | 82  | 53 | 30 | 22        |      |
| 242-23-57    | 59  | 08 | 46 | 38        |      |
| 269-48-04    | 180 | 00 | 08 |           |      |
|              | 90  | 15 | 08 | 2         |      |
|              | 329 | 24 | 14 | 2 6       |      |
|              | 353 | 08 | 29 | 2 21      |      |
|              | 173 | 08 | 24 | 2 19      |      |
|              | 149 | 23 | 42 | 2 37      |      |
|              | 270 | 15 | 05 | 2         |      |
|              | 180 | 30 | 11 | 3         |      |
|              | 59  | 39 | 17 | 3 6       |      |
|              | 83  | 23 | 42 | 3 31      |      |
|              | 263 | 23 | 35 | 3 21      |      |

Temp 58° Bar 28.45 Corr +9 (31)

| TO STA           | Ref | Dist  | Feet     | Dist | Meters         |
|------------------|-----|-------|----------|------|----------------|
| CL-18-H<br>1     | 1   | 611   | 74       | 186  | 958 456<br>455 |
| AKRON MON<br>N.W |     | 55    | 84       | 17   | 021 020<br>021 |
| CL-18-F<br>3     | 1   | 247   | 68<br>66 | 75   | 492 492<br>493 |
| 3                |     |       |          |      |                |
| N.W.             |     |       |          |      |                |
| 1                |     |       |          |      |                |
| 1                |     |       |          |      |                |
| 329              |     |       |          |      |                |
| 353              |     |       |          |      |                |
| 173              |     |       |          |      |                |
| 149              |     |       |          |      |                |
| 270              |     |       |          |      |                |
| 180              |     |       |          |      |                |
| 59               |     |       |          |      |                |
| 83               |     |       |          |      |                |
| 263              |     |       |          |      |                |
|                  |     | 3 00  | 30       | 14   |                |
| NW               |     | 3 239 | 38       | 45   | 31             |
| 3                |     |       |          |      |                |
| 3                |     |       |          |      |                |

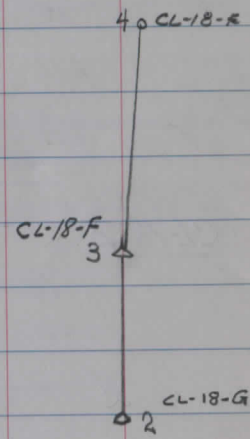
Fence post SOUTH AKRON MON. N.W.

|          |            |     |                  |     |
|----------|------------|-----|------------------|-----|
| FP 47    | 32         | 14  | 440              | 442 |
| OSTA 2   | HORIZONTAL | SET | 442              |     |
| BS-3 00  | 00         | 11  | VERTICAL TO REF. |     |
|          |            |     | D-121-45-45      |     |
| FP 345   | 31         | 25  | I-238-13-51      |     |
| FB 165   | 30         | 47  |                  |     |
| BS-3 180 | 00         | 09  | AKRON MON NW     |     |

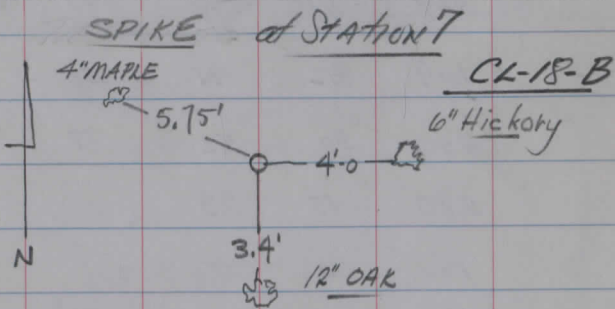
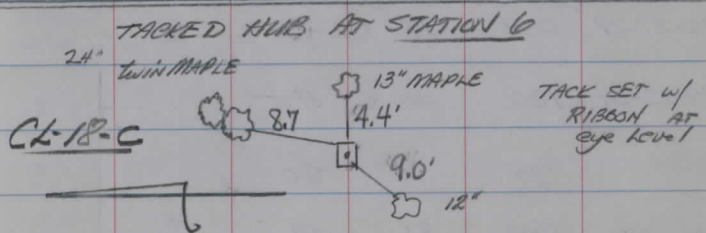
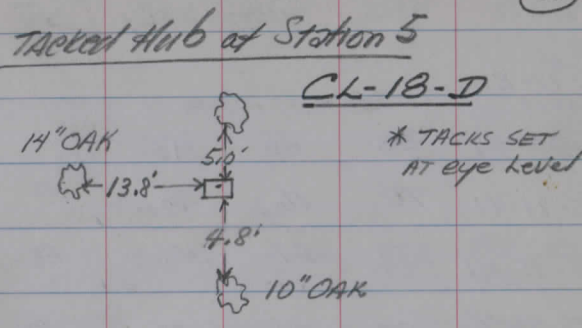
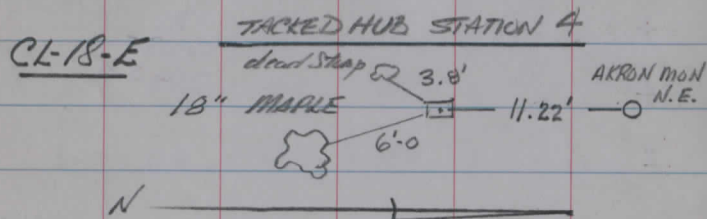
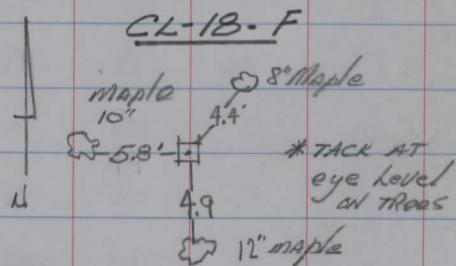


\* NOTE: CL-18-G IS ALONG EAST SIDE OF R.R. BED

| 5-10-84       |            | Dearke Rd Project |    |         |      | Temp $60^{\circ}$ |     | Bar 28.5 |      | corr +9 (32) |                    |
|---------------|------------|-------------------|----|---------|------|-------------------|-----|----------|------|--------------|--------------------|
| STA           | HORIZONTAL |                   |    |         | H.I  | TO STA            | Ref | DIST     | Feet | DIST         | Meters             |
| CL-18-F       |            |                   |    |         | 5.20 |                   |     |          |      |              |                    |
| 3<br>Vertical |            |                   |    |         |      |                   |     |          |      |              |                    |
| D 89-03-22    | 00         | 00                | 16 | 1       | 5.70 |                   | 1   | 247      | 69   | 75           | 491 494<br>495     |
| D 94-36-11    | 194        | 33                | 16 | 00<br>1 | 5.50 |                   | 1   | 226      | 39   | 69           | 006 010<br>007 009 |
| I 265-26-18   | 14         | 33                | 10 | 03<br>1 |      |                   |     |          |      |              |                    |
| I 270-59-07   | 180        | 00                | 13 |         |      |                   |     |          |      |              |                    |
|               | 90         | 15                | 14 |         |      |                   |     |          |      |              |                    |
|               | 284        | 48                | 13 | 59<br>2 |      |                   |     |          |      |              |                    |
|               | 104        | 48                | 05 | 55<br>2 |      |                   |     |          |      |              |                    |
|               | 270        | 15                | 10 |         |      |                   |     |          |      |              |                    |
|               | 180        | 30                | 04 |         |      |                   |     |          |      |              |                    |
|               | 15         | 03                | 03 | 59<br>3 |      |                   |     |          |      |              |                    |
|               | 195        | 02                | 59 | 54<br>3 |      |                   |     |          |      |              |                    |
|               | 00         | 30                | 05 |         |      |                   |     |          |      |              |                    |



DURKEE Rd Project  
Reference for  
TACKED HUB at STA 3

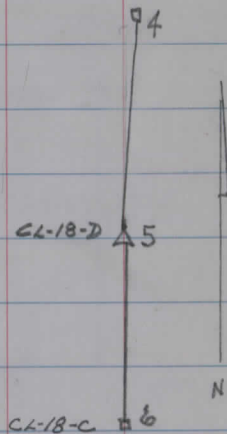






| 5-10-84   |                | Dunkee Rd Project |    |   |      | H.I. |
|-----------|----------------|-------------------|----|---|------|------|
| STA       | HORIZONTAL SET |                   |    |   |      |      |
| CL-18-D   |                |                   |    |   |      | 5.10 |
| 5         |                |                   |    |   |      |      |
| 95-53-56  | 00             | 00                | 10 | 1 |      | 5.50 |
| 90-00-42  | 191            | 38                | 22 | 1 | 12   |      |
|           |                |                   |    |   | 13   |      |
| 270-02-06 | 11             | 38                | 24 | 1 | 14   |      |
| 264-08-51 | 180            | 00                | 10 | 1 |      |      |
|           | 90             | 15                | 18 | 2 |      |      |
|           | 281            | 53                | 29 | 2 | 11   |      |
|           |                |                   |    |   | 13.5 |      |
|           | 101            | 53                | 27 | 2 | 16   |      |
|           |                |                   |    |   |      |      |
|           | 270            | 15                | 11 | 2 |      |      |
|           | 180            | 30                | 07 | 3 |      |      |
|           | 12             | 08                | 13 | 3 | 6    |      |
|           |                |                   |    |   | 9.5  |      |
|           | 192            | 08                | 15 | 3 | 13   |      |
|           | 00             | 30                | 02 | 3 |      |      |

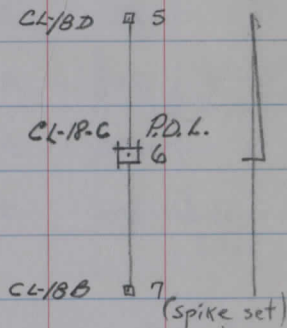
| TO STA  | temp Ref | 62° DIST | Bar 28.45 Feet | Corr Dist | +10 meters | (35)    |
|---------|----------|----------|----------------|-----------|------------|---------|
| 4       |          |          |                |           |            | 472 473 |
| CL-18-E | 1        | 342      | 73             | 104       |            | 473     |
| CL-18-C |          |          |                |           |            | 059 059 |
| 6       |          | 216      | 72             | 66        |            | 059     |
| 6       |          |          |                |           |            |         |
| 4       |          |          |                |           |            |         |
| 4       |          |          |                |           |            |         |
| 6       |          |          |                |           |            |         |
| 6       |          |          |                |           |            |         |
| 4       |          |          |                |           |            |         |
| 4       |          |          |                |           |            |         |
| 6       |          |          |                |           |            |         |
| 6       |          |          |                |           |            |         |
| 4       |          |          |                |           |            |         |



Durkee Rd Project

| STATION                  | HORIZONTAL               | H.I  |
|--------------------------|--------------------------|------|
| CL-18-C<br>6<br>Vertical | P.O.L.                   | 5.23 |
| 90-13-00                 | SET ON LINE<br>180 00 00 | 5.10 |
| 2-28-47                  |                          | 5.31 |
| 269-33-48                |                          |      |
| 269-49-42                |                          |      |

| TO STA  | Temp 62°<br>Ref. | Bm 128.45<br>DIST | Feet | Corr<br>Dist | +10 (36)<br>Meters |
|---------|------------------|-------------------|------|--------------|--------------------|
| CL-18-D |                  |                   |      |              |                    |
| 5       | 1                | 216               | 74   | 66           | 066 070<br>073     |
| CL-18-B |                  |                   |      |              |                    |
| 7       | 1                | 224               | 85   | 68           | 523 526<br>523 527 |
| 7       |                  |                   |      |              |                    |
| 5       |                  |                   |      |              |                    |



DURKEE Road Project

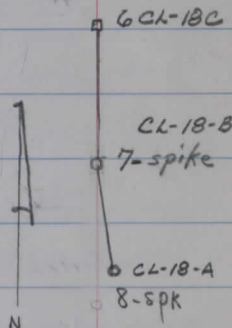
@ STATION

Horizontal set H.I.

| @ STATION           | Horizontal | set | H.I. |
|---------------------|------------|-----|------|
| CL-18-B<br>Vertical |            |     | 5.31 |
| 87-44-20            | 00         | 17  | 5.23 |
| 93-30-49            | 165        | 03  | 5.97 |
| 266-31-40           | 345        | 00  |      |
| 270-18-02           | 180        | 16  |      |
|                     | 90         | 15  |      |
|                     | 256        | 03  |      |
|                     | 76         | 00  |      |
|                     | 270        | 14  |      |
|                     | 180        | 30  |      |
|                     | 346        | 24  |      |
|                     | 166        | 24  |      |
|                     | 00         | 30  |      |

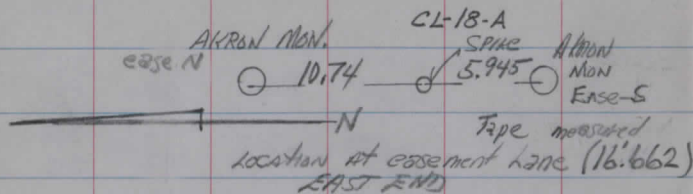
Temp. 62° Bar 28.5 Corr +1.0 (37)

| To STA. | Ref | DIST | Feet | Dist | Meters  |
|---------|-----|------|------|------|---------|
| CL-18-C |     |      |      | 525  | 527     |
| 6       | 1   | 224  | 81   | 68   | 520     |
| CL-18-A |     |      |      | 351  | 365     |
| 8       | 1   | 335  | 80   | 102  | 365 364 |
| 8       |     |      |      |      |         |
| 6       |     |      |      |      |         |
| 6       |     |      |      |      |         |
| 8       |     |      |      |      |         |
| 8       |     |      |      |      |         |
| 6       |     |      |      |      |         |
| 6       |     |      |      |      |         |
| 8       |     |      |      |      |         |
| 8       |     |      |      |      |         |
| 6       |     |      |      |      |         |

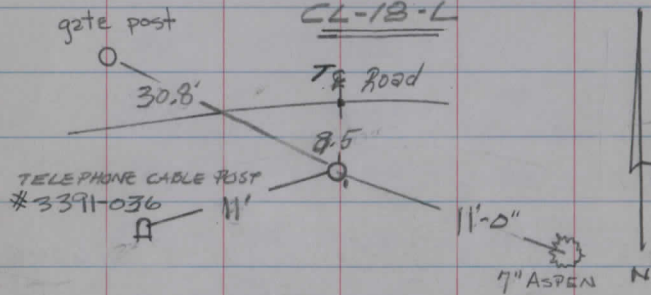


see pg 38 for Reference

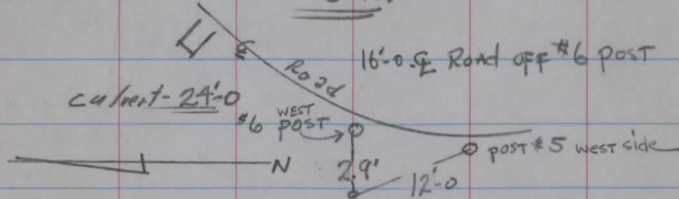
CL-18-A  
Reference for Station B



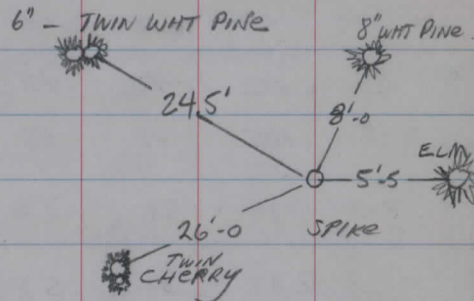
Reference for Station  
CL-18-L



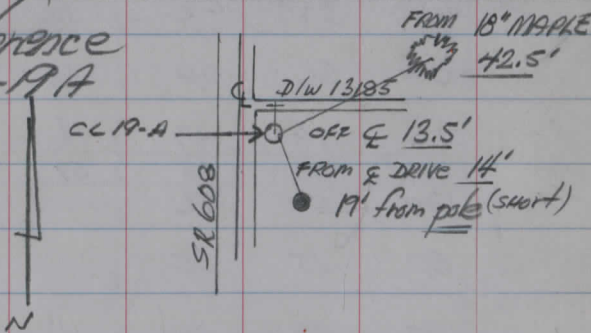
Reference for Station  
CL-18-M



Reference FOR STATION (38)  
CL-18-p



Reference  
CL-19-A



5-10-84  
@ STADURKEE Rd Project  
HORIZONTAL Set

H.I

5.91

CL-18-A

|     |    |    |   |    |
|-----|----|----|---|----|
| 00  | 00 | 24 | 1 |    |
| 02  | 48 | 40 | 1 | 16 |
| 185 | 19 | 42 | 1 | 18 |
| 189 | 56 | 44 | 1 | 20 |
| 241 | 31 | 58 | 1 | 34 |
| 61  | 31 | 42 | 1 | 10 |
| 09  | 56 | 00 | 1 | 28 |
| 05  | 19 | 49 | 1 | 17 |
| 182 | 48 | 23 | 1 | 59 |
| 180 | 00 | 32 | 1 |    |
| 90  | 15 | 05 | 2 |    |
| 93  | 03 | 16 | 2 | 11 |
| 275 | 34 | 20 | 2 | 15 |
| 280 | 11 | 05 | 2 | 00 |
| 331 | 45 | 57 | 2 | 52 |
| 151 | 45 | 52 | 2 | 43 |
| 100 | 10 | 10 | 2 | 03 |

go Next pg.

Temp \_\_\_\_\_ Pcon \_\_\_\_\_  
TO STA Red. DIST Feet Corr. Dist Meter (39)CL-18B  
7MON  
EASE-N

(Tape Measured Distances)

10 .74

F.P.S

19 .24

MON  
EASE-S

5 .945

FP-W

11 .24

FP-W

EASE-S

FP-S

EASE-N

7

7

EASE-N

F.P.  
S

EASE-S

FP  
W

FPW

EASE-S

FP-W

EASE-S

FP-S

EASE-N

\* SPK-8

\* See pg 38 for Reference

@ STA

Durkee Rd Project  
HORIZONTAL

H.I

8  
CL-18-A

5.91

95

34

14

2

5

273

02

54

2

45

270

15

09

2

TO STA.

FP-5

MON  
ease-N

CL-18B

7

7

5-10-84  
 @ STA  
 CL-18-A

Horizontal

H.I

$\angle R = \frac{276-30-50.375}{}$

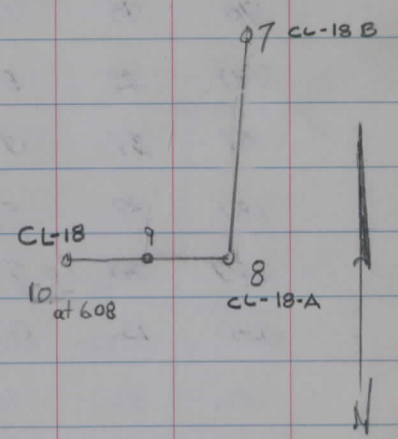
|           |     |    |    |    |      |
|-----------|-----|----|----|----|------|
| 86-38-48  | 00  | 00 | 29 |    |      |
| 87-39-07  | 276 | 31 | 21 | 52 | 6.21 |
| 272-23-26 | 96  | 31 | 25 | 51 | 5.5  |
| 273-23-50 | 180 | 00 | 34 |    |      |
|           | 90  | 15 | 19 |    |      |
|           | 06  | 46 | 10 | 51 | 5.3  |
|           | 186 | 46 | 12 | 55 |      |
|           | 270 | 15 | 17 |    |      |
|           | 180 | 30 | 07 |    |      |
|           | 97  | 00 | 56 | 49 | 48.5 |
|           | 277 | 00 | 59 | 48 |      |
|           | 00  | 30 | 11 |    |      |

VERTICAL  
 J-39-45-18  
 I-270-17-16

(H.I.)  
 5.32

Temp 68°  
 Ben 28.45  
 corr +14 (4)

| TO STA. | Ref | Dist | Seed | Dist | Meters  |
|---------|-----|------|------|------|---------|
| CL-18-B |     |      |      |      | 342 341 |
| 7       | 1   | 335  | 76   | 102  | 349     |
| (608)   |     |      |      |      | 523 732 |
| CL-18   | 1   | 1718 | 27   | 53   | 730 739 |
| (608)   |     |      |      |      | 736     |
| 9       |     |      |      |      |         |
| CL-18-B |     |      |      |      |         |
| 7       |     |      |      |      |         |
| 7       |     |      |      |      |         |
| (608)   |     |      |      |      |         |
| 9       |     |      |      |      |         |
| (608)   |     |      |      |      |         |
| 9       |     |      |      |      |         |
| 7       |     |      |      |      |         |
| 7       |     |      |      |      |         |
| (608)   |     |      |      |      |         |
| 9       |     |      |      |      |         |
| (608)   |     |      |      |      |         |
| 9       |     |      |      |      |         |
| 7       |     |      |      |      |         |

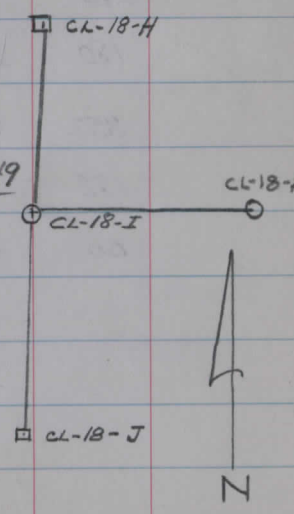


STA 10  
 (Set on line)  
 AT R.R. 10  
 527 2 160  
 629 624  
 624 622



| 5-11-84<br>at Station             | Durkee Ad Project<br>Horizontal |    |    |    | H.I. |
|-----------------------------------|---------------------------------|----|----|----|------|
| CL-18-I                           |                                 |    |    |    | 5.81 |
| <sup>2</sup> Vertical<br>90-26-31 | 00                              | 00 | 09 |    | 5.71 |
| 90-37-19                          | 99                              | 10 | 55 | 46 | 5.10 |
| 89-41-29                          | 277                             | 25 | 01 | 52 | 5.50 |
| 270-21-06                         | 97                              | 25 | 04 | 59 |      |
| 269-25-10                         | 279                             | 10 | 58 | 53 |      |
| 269-36-10                         | 180                             | 00 | 05 |    |      |
|                                   | 90                              | 15 | 07 |    |      |
|                                   | 189                             | 25 | 54 | 47 |      |
|                                   | 07                              | 39 | 57 | 50 |      |
|                                   | 187                             | 39 | 59 | 52 |      |
|                                   | 09                              | 25 | 55 | 48 |      |
|                                   | 270                             | 15 | 07 |    |      |
|                                   | 180                             | 30 | 26 |    |      |
|                                   | 279                             | 41 | 15 | 49 |      |
|                                   | 97                              | 55 | 18 | 52 |      |
|                                   | 277                             | 55 | 19 | 54 |      |

| TEMP 71° | BSP 28.3 | corr + 17 | ±2   |             |                               |
|----------|----------|-----------|------|-------------|-------------------------------|
| TO STS   | REF      | DIST      | FEET | DIST METERS |                               |
| CL-18-A  | 1        | 526       | .99  | 160         | 627 631<br><del>619</del> 631 |
| CL-18-J  | 1        | 833       | .00  | 253         | 903 906<br>902                |
| CL-18-H  | 1        | 494       | .05  | 150         | 577 588<br>584 577            |
| H        |          |           |      |             |                               |
| J        |          |           |      |             |                               |
| A        |          |           |      |             |                               |
| A        |          |           |      |             |                               |
| J        |          |           |      |             |                               |
| H        |          |           |      |             |                               |
| H        |          |           |      |             |                               |
| J        | set<br>3 | 99        | 41   | 14          | 49                            |
| A        | √<br>3   | 00        | 30   | 25          |                               |
| A        |          |           |      |             |                               |
| J        |          |           |      |             |                               |
| H        |          |           |      |             |                               |
| H        |          |           |      |             |                               |



5-11-84

at Station

Dunkec. Road Project  
Horizontal

H.I.

| at Station                  | 171° | 38' | 11.3"                                |    | H.I.               |
|-----------------------------|------|-----|--------------------------------------|----|--------------------|
| CL-18-H<br><u>Verticals</u> |      |     |                                      |    | 5.50               |
| <sup>D</sup> 90-25-59       | 00   | 00  | <sup>LR=171°-38'-11.333"</sup><br>15 |    | 5.81               |
| <sup>D</sup> 89-57-38       | 171  | 38  | 30                                   | 15 | 4.92               |
| <sup>I</sup> 270-04-57      | 351  | 38  | 32                                   | 15 |                    |
| <sup>I</sup> 269-36-40      | 180  | 00  | 17                                   |    |                    |
|                             | 90   | 15  | 12                                   | 2  |                    |
|                             | 261  | 53  | 24                                   | 2  | 12                 |
|                             | 81   | 53  | 22                                   | 2  | 11 <sup>11.5</sup> |
|                             | 270  | 15  | 11                                   | 2  |                    |
|                             | 180  | 30  | 19                                   | 3  |                    |
|                             | 352  | 08  | 26                                   | 3  | 7 <sup>7.5</sup>   |
|                             | 172  | 08  | 28                                   | 3  | 8                  |
|                             | 00   | 30  | 20                                   | 3  |                    |

Temp  $71^{\circ}$  Bar. 28.3 Cor. +17 (43)  
 to Sta Act DIST Feet DIST Meters

| to Sta  | Act | DIST | Feet | DIST | Meters         |
|---------|-----|------|------|------|----------------|
| CL-18-I | 1   | 494  | 01   | 150  | 568 581<br>582 |
| CL-18-G | 1   | 611  | 73   | 186  | 451 455<br>453 |
| G       |     |      |      |      |                |
| I       |     |      |      |      |                |
| I       |     |      |      |      |                |
| G       |     |      |      |      |                |
| G       |     |      |      |      |                |
| I       |     |      |      |      |                |
| I       |     |      |      |      |                |
| G       |     |      |      |      |                |
| G       |     |      |      |      |                |
| I       |     |      |      |      |                |

□ CL-18-G

□ CL-18-H

○ CL-18-I

 $LR=171^{\circ} 38' 11.333''$ 

5-15-84  
at Station

DURKEE Road Project  
HORIZONTAL

N. Bunt  
M. Ferguson  
H.I.

TEMP 47°

BAR 28.65

Corr +1 (44)

CL18-H

LK 189-28' - 11.83"

4.82

| D |           |     |    |    |    |
|---|-----------|-----|----|----|----|
|   | 00        | 00  | 25 | 1  |    |
| D | 90-31-06  | 189 | 28 | 35 | 10 |
| I | 269-31-06 | 09  | 28 | 34 | 9  |
| I |           | 180 | 00 | 26 | 1  |
|   |           | 90  | 15 | 09 | 2  |
|   |           | 270 | 43 | 24 | 15 |
|   |           | 99  | 43 | 25 | 15 |
|   |           | 270 | 15 | 10 | 2  |
|   |           | 180 | 30 | 12 | 3  |
|   |           | 09  | 58 | 23 | 11 |
|   |           | 189 | 58 | 26 | 12 |
|   |           | 00  | 30 | 14 | 3  |

| TO STA. | REC | DIST | FEET | DKT | METERS                                       |
|---------|-----|------|------|-----|--|
| CL-18-G | 1   |      |      |     |  |
| CL-18-J | 1   | 1326 | 30   | 404 | 390 404 <sup>v</sup><br>402 <sup>v</sup> 404 |
| CL-18-J |     |      |      |     |  |
| CL-18-G |     |      |      |     |  |
| "       |     |      |      |     |  |
| 18-J    |     |      |      |     |  |
| 18-J    |     |      |      |     | CL-18-G □                                    |
| 18-G    |     |      |      |     |  |
| "       |     |      |      |     |  |
| 18-J    |     |      |      |     | CL-18-H □                                    |
| 18-J    |     |      |      |     |  |
| 18-G    |     |      |      |     |  |
|         |     |      |      |     |  |
|         |     |      |      |     |  |
|         |     |      |      |     | CL-18-J □                                    |



5-15-84  
STATION

## DURKEE Road Project

HORIZONTAL

H. I.

TO STA

Tcmp 47 Bar 28.65

corr +1

45

Ref

DIST

FEET

DIST

METERS

CL-18-J

89-33-04

00

00

28

5.08

CL-18-H

3

1326

.74

404

403 402  
405

93-30-46

58

19

18

50 <sup>47.5</sup>  
46 4.66

Fence Post

1

65

47

19

955  
954 956

97-25-12

58

51

32

00.5  
04 <sup>57.25</sup>A.K. MON  
MON

66

31

20

212 214  
213

89-25-16

63

04

09

40.5  
41 <sup>39</sup>SPIKE IN  
FIELD  
18-K

560

84

170

937 948  
942 948 <sup>942</sup>

270-26-57

243

04

05

35

18-K

262-36-53

238

51

16

46

MON

266-31-29

238

19

11

44

F.P.

□ CL-18-H

270-29-10

180

00

30

CL-18-H

90

15

05

18-H

148

33

50

45 <sup>44.5</sup>

F.P.

149

06

02

57 <sup>54.0</sup>

MON

153

18

45

40 <sup>37.5</sup>

18-K

333

18

43

35

18-K

329

05

57

49

MON

328

33

52

44

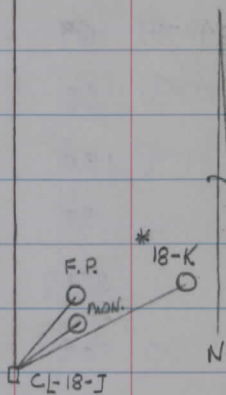
F.P.

270

15

08

18-K



F.P.  
 $\angle R = 58^\circ - 18' = 46.0''$   
 A.K. MON  
 $\angle R = 58^\circ 50' = 57.25''$   
 $CL-18-K = RR = 63' - 03' 39''$

16 MAY 1984

DURKEE Rd Project

AT STATION

Horizontal

H. J

CL-18-K

5.16

VERTICAL

90-42-48

00

00

09

4.89

94-00-00

246

52

53

44

4.23

94-13-34

249

08

47

38

4.0

93-53-00

251

54

40

31

4.83

93-22-37

281

08

34

25

5.12

26639-46

101

08

29

18

266-09-20

71

54

40

39

265-48-41

69

08

47

36

266-02-31

66

52

55

44

269-19-43

180

00

11

90

15

13

337

07

55

42

339

23

55

42

342

09

42

29

11

23

36

23

191

23

33

24

cont. next pg.

TEMP 55°

BAR 29.75

Corr +4 (6)

TO STA

REF

DIST

FEET

DIST

METERS

CL-18-J

1

560

83

170

941

947

939

933

AKRON  
MON

1

194

17

59

187

187

175

179

TREE

1

189

88

57

875

875

877

876

\*IRON  
PIPE

1

182

39

55

589

588

599

18-L

3

406

44

123

905

900

902

"

I.P.

TREE

MON

18-J

"

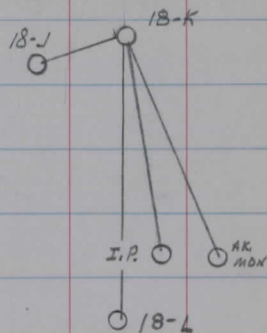
MON

Tree

I.P.

18-L

"

\*iron pipe with lead plug  
at fence line West

at Sta

CL 18-K

|     |    |    |   |    |
|-----|----|----|---|----|
| 162 | 09 | 37 | 2 | 28 |
| 159 | 23 | 49 | 2 | 40 |
| 157 | 07 | 57 | 2 | 48 |
| 270 | 15 | 09 | 2 |    |
| 180 | 30 | 07 | 3 |    |
| 101 | 38 | 34 | 3 | 27 |
| 281 | 38 | 31 | 3 | 26 |
| 06  | 30 | 05 | 3 |    |

TO STA

(47)

I. P.

TREE

MON

18-J

"

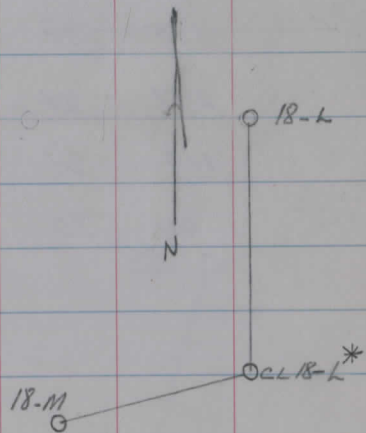
18-L

18-L

18-J

| 5-16-84              | Durkee Road Project |      |     |                      | H.I  |
|----------------------|---------------------|------|-----|----------------------|------|
| at Station           | Horizontal          |      |     |                      |      |
| CL-18-L<br>verticals |                     | 245° | 36' | 23"                  | 5.12 |
| 86-42-57             | 00                  | 00   | 13  |                      | 5.16 |
| 90-08-56             | 245                 | 36   | 40  | 27                   | 4.91 |
| 269-58-45            | 65                  | 36   | 36  | 22 <sup>24.5</sup>   |      |
| 273-19-21            | 180                 | 00   | 14  |                      |      |
|                      | 90                  | 15   | 11  | 2                    |      |
|                      | 335                 | 51   | 37  | 2 26 <sup>21.5</sup> |      |
|                      | 155                 | 51   | 34  | 2 19                 |      |
|                      | 270                 | 15   | 15  | 2                    |      |
|                      | 180                 | 30   | 10  | 3                    |      |
|                      | 66                  | 06   | 32  | 3 22                 |      |
|                      | 246                 | 06   | 30  | 3 22 <sup>22</sup>   |      |
|                      | 00                  | 30   | 08  | 3                    |      |

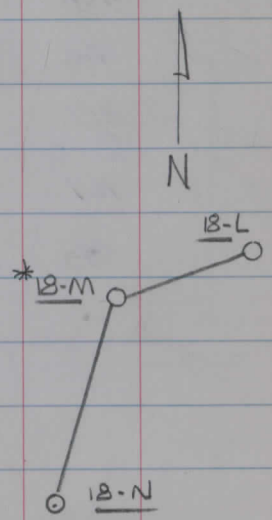
| Temp 58° | Bsr 28.75 | Corr. +6 | (48) |      |                               |
|----------|-----------|----------|------|------|-------------------------------|
| TO STA   | Ret'      | DIST     | Feet | Dist | Meters                        |
| CL-18-K  | 1         | 406      | 42   | 123  | 880 885                       |
| CL-18-M  | 1         | 634      | 40   | 193  | 808 885<br>370 375<br>380 376 |
| "        |           |          |      |      |                               |
| 18-K     |           |          |      |      |                               |
| "        |           |          |      |      |                               |
| 18-M     |           |          |      |      |                               |
| "        |           |          |      |      |                               |
| 18-K     |           |          |      |      |                               |
| "        |           |          |      |      |                               |
| 18-M     |           |          |      |      |                               |
| "        |           |          |      |      |                               |
| 18-K     |           |          |      |      |                               |



\* See page 38 for Reference

| 5-17-84    | Durkee Road Project |    |    |            | H. I. |
|------------|---------------------|----|----|------------|-------|
| AT STATION | HORIZONTAL          |    |    |            |       |
| CL-18-M    |                     |    |    |            | 5.47  |
| Verticals  | LR = 116° 53' 41.5" |    |    |            |       |
| 90-05-42   | 00                  | 00 | 15 |            | 5.10  |
| 88-48-58   | 116                 | 54 | 00 | 45<br>40   | 5.22  |
| 271-13-37  | 296                 | 54 | 55 | 35         |       |
| 269-59-50  | 180                 | 00 | 20 |            |       |
|            | 90                  | 15 | 03 | 2          |       |
|            | 207                 | 08 | 48 | 45<br>40.5 |       |
|            | 27                  | 08 | 44 | 36         |       |
|            | 270                 | 15 | 08 | 2          |       |
|            | 180                 | 30 | 25 | 3          |       |
|            | 297                 | 24 | 09 | 44<br>44   |       |
|            | 117                 | 24 | 11 | 3          |       |
|            | 00                  | 30 | 27 | 3          |       |

| Temp 66°   |     | BAR 28.8 |      | Corr +10 (49) |                                     |
|------------|-----|----------|------|---------------|-------------------------------------|
| TO STATION | REF | DIST     | FEET | DIST          | METERS                              |
| CL-18-L    | 1   | 634      | 40   | 193           | 366<br>367                          |
| CL-18-N    | 1   | 438      | 26   | 133           | 575<br>590<br><del>603</del><br>588 |
| "          |     |          |      |               | 587<br>587<br>586                   |
| 18-L       |     |          |      |               |                                     |
| "          |     |          |      |               |                                     |
| 18-N       |     |          |      |               |                                     |
| "          |     |          |      |               |                                     |
| 18-L       |     |          |      |               |                                     |
| "          |     |          |      |               |                                     |
| 18-N       |     |          |      |               |                                     |
| "          |     |          |      |               |                                     |
| 18-L       |     |          |      |               |                                     |

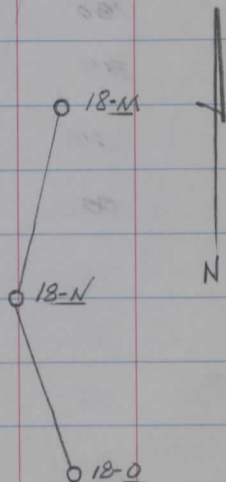


\*see pg 38 for Reference



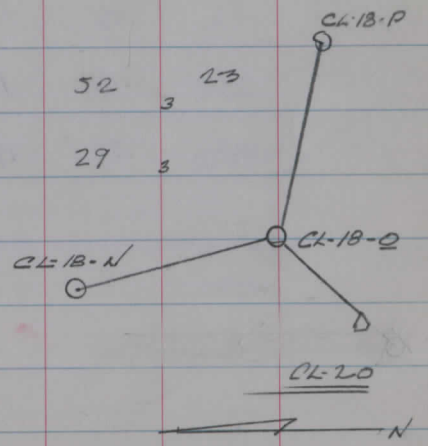
| 5-1784<br>AT STATION | Dukkee Road Project<br>HORIZONTAL |    |    |      | H.I  |
|----------------------|-----------------------------------|----|----|------|------|
| CL-18-N              |                                   |    |    |      | 5.22 |
| VERTICALS            |                                   |    |    |      |      |
| 91-19-27             | 00                                | 00 | 25 |      | 5.47 |
| 91-20-35             | 167                               | 05 | 48 | 23   | 4.52 |
|                      |                                   |    |    | 25.5 |      |
| 268-41-55            | 347                               | 05 | 47 | 28   |      |
| 268-43-25            | 180                               | 00 | 19 |      |      |
|                      | 90                                | 15 | 20 | 2    |      |
|                      | 257                               | 20 | 44 | 24   |      |
|                      |                                   |    |    | 25   |      |
|                      | 77                                | 20 | 41 | 26   |      |
|                      |                                   |    |    | 2    |      |
|                      | 270                               | 15 | 15 |      |      |
|                      |                                   |    |    | 2    |      |
|                      | 180                               | 30 | 08 | 22   |      |
|                      |                                   |    |    | 3    |      |
|                      | 347                               | 35 | 30 | 22   |      |
|                      |                                   |    |    | 26.5 |      |
|                      | 167                               | 35 | 34 | 31   |      |
|                      |                                   |    |    | 3    |      |
|                      | 00                                | 30 | 03 |      |      |
|                      |                                   |    |    | 3    |      |

| TEMP<br>TO STA | 66°<br>REF | DIST | BAR 29.6 |      | CORR +10.50       |
|----------------|------------|------|----------|------|-------------------|
|                |            |      | FEET     | DIST |                   |
| CL-18-M        | 1          | 438  | 28       | 139  | 594<br>592<br>594 |
| CL-18-0        | 1          | 533  | 39       | 162  | 585<br>580<br>573 |
| "              |            |      |          |      |                   |
| 18-M           |            |      |          |      |                   |
| "              |            |      |          |      |                   |
| 18-0           |            |      |          |      |                   |
| "              |            |      |          |      |                   |
| 18-M           |            |      |          |      |                   |
| "              |            |      |          |      |                   |
| 18-0           |            |      |          |      |                   |
| "              |            |      |          |      |                   |
| 18-M           |            |      |          |      |                   |



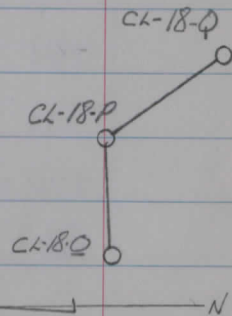
| 5-17-84<br>at Station | Durkee Road Project<br>Horizontal |    |    |                    | H.I  |
|-----------------------|-----------------------------------|----|----|--------------------|------|
| CL-18-Q               |                                   |    |    |                    | 4.52 |
| VERTICALS             |                                   |    |    |                    |      |
| 88-46-22              | 00                                | 00 | 05 |                    | 5.22 |
| 91-58-06              | 106                               | 04 | 28 | 23 <sup>28.5</sup> | 5.63 |
| 89-50-03              | 205                               | 25 | 44 | 39                 | 6.15 |
| 270-12-24             | 25                                | 25 | 41 | 45 <sup>42</sup>   |      |
| 268-04-22             | 286                               | 04 | 30 | 34                 |      |
| 271-16-10             | 179                               | 59 | 56 |                    |      |
|                       | 90                                | 15 | 38 |                    |      |
|                       | 196                               | 20 | 17 | 39 <sup>38.5</sup> |      |
|                       | 295                               | 41 | 34 | 50                 |      |
|                       | 115                               | 41 | 52 | 53 <sup>55.5</sup> |      |
|                       | 16                                | 20 | 37 | 38                 |      |
|                       | 270                               | 15 | 59 |                    |      |
|                       | 180                               | 30 | 23 |                    |      |
|                       | 286                               | 34 | 53 | 30 <sup>26.5</sup> |      |
|                       | 25                                | 56 | 04 | 41 <sup>39.5</sup> |      |
|                       | 205                               | 56 | 07 | 38                 |      |

| TEMP       | 70  | Bar  | 28.8 | corr | +11    | (51) |
|------------|-----|------|------|------|--------|------|
| TO STATION | Ref | DIST | Feet | DIST | METERS |      |
| CL-18-N    | 1   | 533  | .38  | 162  | 574    | 576  |
| CL-18-P    | 1   | 304  | .07  | 92   | 573    | 573  |
| CL-20      | 1   | 510  | .75  | 155  | 683    | 672  |
| "          |     |      |      |      | 679    | 669  |
| 18-P       |     |      |      |      | 677    | 672  |
| 18-N       |     |      |      |      | 675    | 675  |
| "          |     |      |      |      |        |      |
| 18-P       |     |      |      |      |        |      |
| 20         |     |      |      |      |        |      |
| "          |     |      |      |      |        |      |
| 18-P       | 100 | 34   | 52   | 23   |        |      |
| 18-N       | 00  | 30   | 29   | 3    |        |      |
| "          |     |      |      |      |        |      |
| 18-P       |     |      |      |      |        |      |
| CL-20      |     |      |      |      |        |      |
| "          |     |      |      |      |        |      |



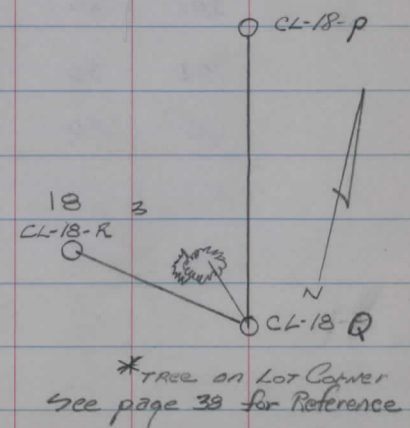
| 5-16-84     |            | DURKEE ROAD PROJECT |    |      |      | H.I |
|-------------|------------|---------------------|----|------|------|-----|
| AT STATION  | HORIZONTAL |                     |    |      |      |     |
| CL-18-P     |            |                     |    |      | 5.63 |     |
| VERTICALS   |            |                     |    |      |      |     |
| 88-12-22    | 00         | 00                  | 23 |      | 4.52 |     |
| 91 01 55    | 234        | 46                  | 26 | 03   | 5.42 |     |
|             |            |                     |    | 59.5 |      |     |
| 8 269-00-34 | 54         | 46                  | 22 | 56   |      |     |
| 271-50-12   | 180        | 00                  | 26 |      |      |     |
|             | 90         | 15                  | 16 |      |      |     |
|             | 325        | 01                  | 14 | 58   |      |     |
|             | 145        | 01                  | 12 | 52   | 55   |     |
|             | 270        | 15                  | 20 |      |      |     |
|             | 180        | 30                  | 16 |      |      |     |
|             | 55         | 16                  | 13 | 57   |      |     |
|             |            |                     |    | 55.5 |      |     |
|             | 235        | 16                  | 11 | 54   |      |     |
|             | 00         | 30                  | 17 |      |      |     |

| TO STA  | REF | DIST | FEET | DIST | Meters             |
|---------|-----|------|------|------|--------------------|
|         |     |      |      |      | (52)               |
| CL-18-Q | 1   | 304  | 01   | 92   | 677 671<br>676     |
| CL-18-Q | 1   | 222  | 41   | 67   | 793 795<br>794 794 |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |
| "       |     |      |      |      |                    |
| 18-Q    |     |      |      |      |                    |



| STATION              | DURKEE Road Project<br>HORIZONTAL |               |               | H.T.                 |
|----------------------|-----------------------------------|---------------|---------------|----------------------|
| CL-18 &<br>VERTICALS |                                   |               |               | 5.52                 |
| 89-11-16             | 00                                | 00            | 19            | 5.63                 |
| 88-02-54             | 302                               | 33            | 06            | 4.84 <sup>3.1V</sup> |
|                      | 351                               | 07            | 48            | 29                   |
|                      | 171                               | 07            | 50            | 29                   |
| 271-59-34            | 122<br>+71                        | 33<br>07      | 08<br>53      | 47                   |
| 270-51-07            | 180<br>+22                        | 00<br>33      | 21<br>08      |                      |
|                      | <del>180</del>                    | <del>00</del> | <del>21</del> |                      |
|                      | 90                                | 15            | 17            |                      |
|                      | 32                                | 48            | 11            | 54 51.5              |
|                      | 81                                | 22            | 54            | 37 34.5              |
|                      | 261                               | 22            | 58            | 32                   |
|                      | 212                               | 48            | 15            | 49                   |
|                      | 270                               | 15            | 26            |                      |
|                      | 180                               | 30            | 17            |                      |
|                      | 123                               | 02            | 59            | 42 44                |
|                      | 303                               | 03            | 04            | 46                   |

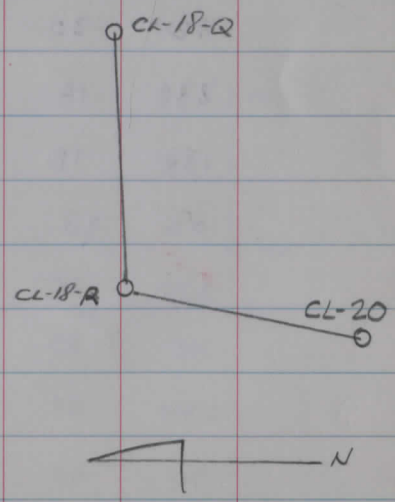
| TO STA  | TEMP. Ref | DIST | BAR 28-77<br>FEET | CORR +8 (53)<br>DIST METERS |
|---------|-----------|------|-------------------|-----------------------------|
| CL-18-P | 1         | 222  | 32                | 67 767 769                  |
| CL-18-R | 1         | 466  | .50               | 767 186 186 187 187         |
| TREE    |           | 26   | 02                |                             |
| "       |           |      |                   |                             |
| 18R     |           |      |                   |                             |
| 18-P    |           |      |                   |                             |
| CL-18-P |           |      |                   |                             |
| 18-R    |           |      |                   |                             |
| TREE    |           |      |                   |                             |
| TREE    |           |      |                   |                             |
| 18-R    |           |      |                   |                             |
| CL-18-P | 00        | 30   | 18                |                             |
| "       |           |      |                   |                             |
| 18-R    |           |      |                   |                             |
| "       |           |      |                   |                             |



MAY 17, 1984 DURKRE Road Project

| STATION         | HORIZONTAL           |    |      | H.I  |
|-----------------|----------------------|----|------|------|
| CL-18-R         | R: 102'-02" - 46.83" |    |      | 4.84 |
| Vertical 2nd 00 | 00                   | 26 |      | 46   |
| 92-04-48        | 00                   | 10 |      | 5.52 |
| 2nd 102         | 03                   | 12 |      |      |
| 90-14-33        | 102                  | 37 | 29   | 6.15 |
| 2nd 282         | 03                   | 14 | 32.5 |      |
| 269-48-07       | 282                  | 40 | 38   |      |
| 2nd 180         | 00                   | 24 | 50   |      |
| 267-57-48       | 180                  | 02 |      |      |
|                 | 90                   | 11 |      |      |
|                 | 192                  | 56 | 45   | 44.5 |
|                 | 12                   | 55 | 44   |      |
|                 | 270                  | 11 |      |      |
|                 | 180                  | 09 |      |      |
|                 | 282                  | 54 | 45   | 48   |
|                 | 102                  | 56 | 51   |      |
|                 | 00                   | 05 |      |      |

| TO STA  | Temp 64 Ref | BAR 28.77 DIST | FEET | COVR +8 DIST | Meters (54)                       |
|---------|-------------|----------------|------|--------------|-----------------------------------|
| CL-18-Q | 1           | 466            | 54   | 142          | 207 212<br>209                    |
| CL-20   | 1           | 304            | 66   | 92           | 866 863<br>870 846<br>861 857 869 |
| "       |             |                |      |              |                                   |
| 18-Q    |             |                |      |              |                                   |
| "       |             |                |      |              |                                   |
| CL-20   |             |                |      |              |                                   |
| "       |             |                |      |              |                                   |
| 18-Q    |             |                |      |              |                                   |
| "       |             |                |      |              |                                   |
| CL-20   |             |                |      |              |                                   |
| "       |             |                |      |              |                                   |
| 18-Q    |             |                |      |              |                                   |



5-21-84

Dunke Road Project  
HORIZONTAL

AT STATION

H.I.

HG-12

5.81

VERTICALS

LR CL17 = 157° 48' 07"

89-27-33

00

06

13

5.51

90-04-35

157

48

19

06

6.13

05.5"

269-57-59

337

48

17

05

270-34-55

180

00

12

90

15

23

2

248

03

24

2

01

68

03

26

2

01

270

15

25

2

180

30

19

3

338

18

24

3

05

158

18

22

3

02

00

30

20

3

270

45

09

4

68

33

15

4

06

248

33

17

4

06

90

45

11

4

TEMP 62°

BAR 28.4 Corr +11

55

TO STA

No. Ref.

DIST

FEET

DIST

METERS

HG-11

1

1259

84

383

983

988

994

985

CL-17

6

6221

.04

1896

185

194

188

194

"

HG-11

"

CL-17

"

HG-11

"

CL-17

"

HG-11

"

CL-17

"

HG-11

CL-17

HG-12

HG-11

N



5-21-84 DURKEE RD PROJECT H. I.

| AT STATION    | HORIZONTAL     |               |               |               | H. I.           |
|---------------|----------------|---------------|---------------|---------------|-----------------|
| CL-18<br>vert |                |               |               |               | 5.94            |
| 89-26-59      | 00             | 00            | 09            | set           | 6.13            |
| 97-25-04      | 94             | 52            | 26            | 17            |                 |
| 92-25-44      | 106            | 44            | 13            | 04            | 5.12            |
| 97-59-35      | 111            | 04            | 42            | 33            |                 |
|               | <del>173</del> | <del>44</del> | <del>15</del> | <del>06</del> | <del>4.50</del> |
|               | <del>353</del> | <del>44</del> | <del>07</del> |               |                 |
| 262-03-00     | 291            | 04            | 32            | 25            |                 |
| 267-36-52     | 286            | 44            | 05            | 58            |                 |
| 262-37-28     | 274            | 52            | 16            | 9             |                 |
| 270-35-33     | 180            | 00            | 07            | 1             |                 |
|               | 90             | 15            | 16            | 2             |                 |
|               | 185            | 07            | 32            | 2 16          |                 |
|               | 196            | 59            | 17            | 2 01          |                 |
|               | 201            | 19            | 47            | 2 31          |                 |
|               | <del>263</del> | <del>59</del> | <del>19</del> | 2             |                 |

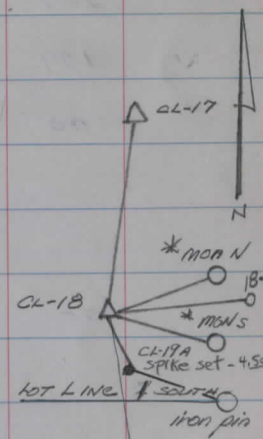
next page

TEMP 69° BAR 28.35 CORR +7 (57)

| TO STATION     | REF | DIST | FEET | DIST | METERS                   |
|----------------|-----|------|------|------|--------------------------|
| CL-17          |     | 714  | 76   | 217  | 859<br>861<br>865        |
| MON N<br>NORTH | 1   | 58   | 13   | 17   | 723<br>725<br>728<br>724 |
| CL-18-A        | 3   | 1718 | 28   | 523  | 726<br>735<br>734        |
| MON SOUTH      | 1   | 64   | 04   | 19   | 519<br>517<br>518        |

\*CL-19A  
" "

MONS  
CL-18A  
MON N  
CL-17  
CL-17  
MON N  
18-A  
MONS



LR- 94° 52' 12" - MON N  
CL-18A LR- 106° 44' 00.25"  
LR- 111° 04' 29.25" MON S H.I. 5.95

\* See pg 59 FOR CL-19A

\* MONUMENTS located on easement drive, west end at 608



5-21-84

## DURKEE Road Project

AT STA

HORIZONTAL

H.I.

CL-18

set

|               |    |    |   |                  |
|---------------|----|----|---|------------------|
| <del>83</del> | 59 | 19 | 2 |                  |
| 21            | 19 | 41 | 2 | 25               |
| 16            | 59 | 14 | 2 | 58               |
| 05            | 07 | 22 | 2 | 06               |
| 270           | 15 | 16 | 2 |                  |
| 180           | 30 | 10 | 3 | 00               |
| 287           | 14 | 10 | 3 | 00               |
| 107           | 14 | 07 | 3 | 02 <sup>01</sup> |
| 00            | 30 | 05 | 3 |                  |

go to next pg

(58)

TO STA Ref DIST Feet Dist Meters

|        |   |     |    |     |                |
|--------|---|-----|----|-----|----------------|
| CL-19A | 1 | 979 | 86 | 298 | 672 670<br>673 |
| MONS   |   |     |    |     | 10 50          |
| 18-A   |   |     |    |     |                |
| MONN   |   |     |    |     |                |
| CL-17  |   |     |    |     |                |
| "      |   |     |    |     |                |
| 18-A   |   |     |    |     |                |
| "      |   |     |    |     |                |
| CL-17  |   |     |    |     |                |

5-21-84  
AT STATION

DURKEE ROAD Project  
HORIZONTAL

H.I.

|                   |        |                   |    |          |      |
|-------------------|--------|-------------------|----|----------|------|
| CL-18<br>VERTICAL | CL-19A | LR=174'-17" 29.0" |    |          |      |
|                   | 00     | 00                | 18 | 1        |      |
| 92-03-01          | 174    | 17                | 49 | 31<br>27 | 5.17 |
| 267-59-38         | 354    | 17                | 46 | 27       |      |
|                   | 180    | 00                | 19 |          |      |
|                   | 90     | 15                | 10 | 2        |      |
|                   | 264    | 32                | 37 | 27       |      |
|                   | 84     | 32                | 40 | 31<br>29 |      |
|                   | 270    | 15                | 09 | 2        |      |
|                   | 180    | 30                | 13 | 3        |      |
|                   | 354    | 47                | 42 | 3<br>29  |      |
|                   | 174    | 47                | 44 | 3<br>29  |      |
|                   | 00     | 30                | 15 | 3        |      |

Ref

To STA

CL-17

CL-19A

"

CL-17

"

CL-19A

"

CL-17

"

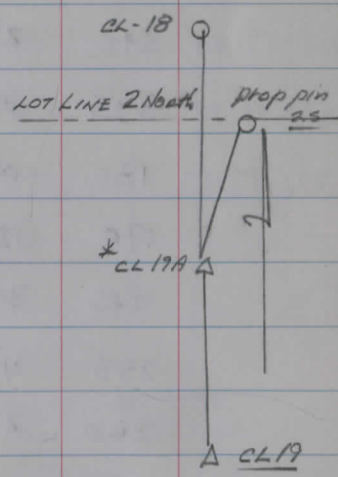
CL-19A

"

CL-17

| 5-21-84   |            | DURKEE Rd PROJECT |    |    |  | H.I. |
|-----------|------------|-------------------|----|----|--|------|
| Station   | HORIZONTAL |                   |    |    |  |      |
| CL 19-A   |            |                   |    |    |  | 5.17 |
| 88-01-36  | 00         | 00                | 14 |    |  | 5.94 |
| 87-09-54  | 09         | 22                | 46 | 32 |  | 6.10 |
| 91-18-02  | 182        | 09                | 39 | 25 |  |      |
| 268-44-40 | 02         | 09                | 36 | 24 |  |      |
| 272-52-53 | 189        | 22                | 47 | 35 |  |      |
| 272-01-06 | 180        | 00                | 12 |    |  |      |
|           | 90         | 15                | 08 |    |  |      |
|           | 99         | 37                | 42 | 34 |  |      |
|           | 272        | 24                | 40 | 32 |  |      |
|           | 92         | 24                | 36 | 28 |  |      |
|           | 279        | 37                | 44 | 36 |  |      |
|           | 270        | 15                | 08 |    |  |      |
|           | 180        | 30                | 07 |    |  |      |
|           | 02         | 39                | 37 | 30 |  |      |
|           | 182        | 39                | 35 | 28 |  |      |
|           | 00         | 30                | 07 |    |  |      |

| Temp.                   | 69° | Bar  | 28.35 | Corr | +7     |                    |
|-------------------------|-----|------|-------|------|--------|--------------------|
| To STA                  | Ref | Dist | Feet  | Dist | Meters | (60)               |
| CL-18                   | 1   | 979  | 87    | 298  |        | 627 669<br>659 666 |
| Drop pin<br>Lot Line 25 | 1   | 107  | 14    | 32   |        | 660 654<br>657 655 |
| CL-19                   | 1   | 1321 | 62    | 402  |        | 830 836<br>831 838 |
| "                       |     |      |       |      |        |                    |
| P.P. 25                 |     |      |       |      |        |                    |
| CL-18                   |     |      |       |      |        |                    |
| CL-18                   |     |      |       |      |        |                    |
| P.P. 25                 |     |      |       |      |        |                    |
| CL-19                   |     |      |       |      |        |                    |
| "                       |     |      |       |      |        |                    |
| P.P. 25                 |     |      |       |      |        |                    |
| CL-18                   |     |      |       |      |        |                    |
| "                       |     |      |       |      |        |                    |
| CL-19                   |     |      |       |      |        |                    |
| "                       |     |      |       |      |        |                    |
| CL-18                   |     |      |       |      |        |                    |



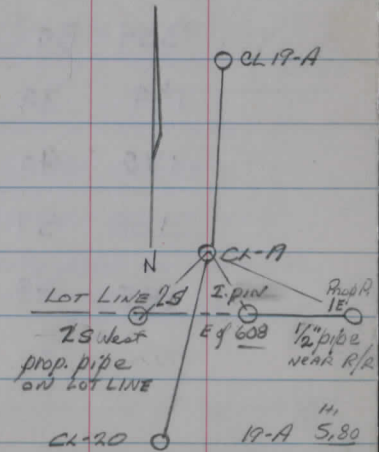
$\angle R 182^{\circ} 09' - 27.8''$

see pg 30 for Ref.

| 5-22-84<br>at Station | DURKEE RD Project<br>HORIZONTAL SET |    |    |                    | H.I                            |
|-----------------------|-------------------------------------|----|----|--------------------|--------------------------------|
| CL 19                 |                                     |    |    |                    | 5.80                           |
| <i>Verticals</i>      |                                     |    |    |                    |                                |
| 88-47-33              | 00                                  | 00 | 02 |                    | 4.69                           |
| 92-49-36              | 155                                 | 19 | 26 | 24 <sup>22</sup>   | 5.47                           |
| 93-03-22              | 168                                 | 27 | 32 | 30 <sup>28</sup>   | TOP OF P.V.                    |
| 92-14-20              | 170                                 | 10 | 20 | 18 <sup>18</sup>   | 6.00                           |
| 92-57-08              | 179                                 | 09 | 26 | 24 <sup>22.5</sup> | 12"<br>6.00 <sub>ON R.R.</sub> |
| 267-14-56             | 359                                 | 09 | 22 | 21                 |                                |
| 267-58-02             | 350                                 | 10 | 18 | 17                 |                                |
| 266-59-41             | 348                                 | 27 | 27 | 26                 |                                |
| 267-13-30             | 335                                 | 19 | 21 | 20                 |                                |
| 271-15-27             | 180                                 | 00 | 01 |                    |                                |
|                       | 90                                  | 15 | 09 |                    |                                |
|                       | 245                                 | 34 | 36 | 27 <sup>25</sup>   |                                |
|                       | 258                                 | 42 | 40 | 31 <sup>28</sup>   |                                |
|                       | 260                                 | 25 | 27 | 18 <sup>18</sup>   |                                |
|                       | 269                                 | 24 | 35 | 26 <sup>24.5</sup> |                                |

NEXT PAGE

| TEMP 76°                  |     | BAR 28.4 |      | CORR +10 |        | (61) |
|---------------------------|-----|----------|------|----------|--------|------|
| TO STA                    | REF | DIST     | FEET | DIST     | METERS |      |
| CL 19-A                   | 3   | 1321     | 58   | 402      | 821    | 823  |
| prop pipe<br>EAST AT R.R. | 1   | 477      | 24   | 145      | 824    | 461  |
| prop pin<br>EAST of 608   | 1   | 398      | 80   | 121      | 460    | 461  |
| CL-20                     | 1   | 794      | 61   | 242      | 563    | 564  |
| P.P. West<br>608          | 1   | 367      | 77   | 112      | 564    | 567  |
| "                         |     |          |      |          | 198    | 203  |
| CL-20                     |     |          |      |          | 206    | 197  |
| 608 E                     |     |          |      |          | 088    | 088  |
| I.P.R.R.                  |     |          |      |          | 088    | 090  |
| CL 19-A                   |     |          |      |          |        |      |
| CL 19-A                   |     |          |      |          |        |      |
| P.P. E of R.R.            |     |          |      |          |        |      |
| E of 608                  |     |          |      |          |        |      |
| CL-20                     |     |          |      |          |        |      |
| W-608                     |     |          |      |          |        |      |



CL-20 19-A 5.80

5-22-84  
AT STA

DURKEE ROAD Project  
SET

CL-19

|     |    |    |    |                 |
|-----|----|----|----|-----------------|
| 89  | 24 | 33 | 23 | 12''<br>ON GALT |
| 80  | 25 | 23 | 13 |                 |
| 78  | 42 | 35 | 25 |                 |
| 65  | 34 | 33 | 23 |                 |
| 270 | 15 | 10 |    |                 |
| 180 | 30 | 13 |    |                 |
| 335 | 49 | 48 | 35 | <sup>27.5</sup> |
| 348 | 57 | 53 | 40 | <sup>32</sup>   |
| 350 | 40 | 41 | 28 | <sup>20</sup>   |
| 359 | 39 | 48 | 35 | <sup>28</sup>   |
| 179 | 39 | 44 | 21 |                 |
| 170 | 40 | 35 | 12 |                 |
| 168 | 57 | 47 | 24 |                 |
| 155 | 49 | 43 | 20 |                 |
| 00  | 30 | 23 |    |                 |

TO STA

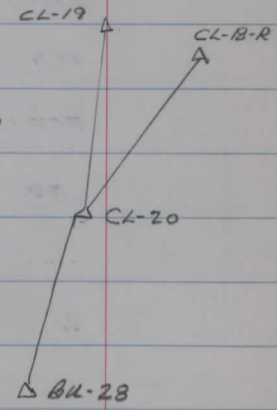
|          |
|----------|
| 608-W    |
| CL-20    |
| 608-E    |
| I.P.R.R. |
| CL-19-A  |
| "        |
| I.P.R.R. |
| 608-E    |
| CL-20    |
| 608-W    |
| "        |
| CL-20    |
| 608-E    |
| I.P.R.R. |
| CL-19A   |

calculated angles

- \* property pipe at Rail Road  
Right of Way -  $\angle R = 155^{\circ} 19' 24.83$
- \* property pin East Side of SR 608  
 $\angle R = 168^{\circ} 27' 29.35''$
- CL-20  $\angle R = 170^{\circ} 10' 17.6''$
- \* property pipe on west side  
of SR 608 -  $\angle R = 179^{\circ} 09' 25.8$
- \* points located on  
SOUTH LINE of lot line ONE

| 5-22-84<br>at Station | DURKEE ROAD PROJECT<br>HORIZONTAL SET |    |    |                      | H.I. |
|-----------------------|---------------------------------------|----|----|----------------------|------|
| CL-20<br>verticals    |                                       |    |    |                      | 6.00 |
| 87-51-16              | 00                                    | 00 | 20 |                      | 5.80 |
| 89-50-05              | 37                                    | 51 | 18 | 58 <sup>54.5</sup>   | 4.83 |
| 90-47-01              | 217                                   | 09 | 41 | 21 <sup>19.5</sup>   | 6.45 |
| 269-15-54             | 37                                    | 09 | 43 | 18                   |      |
| 270-12-48             | 217                                   | 51 | 16 | 51                   |      |
| 272-11-44             | 180                                   | 00 | 25 |                      |      |
|                       | 90                                    | 15 | 40 | 2                    |      |
|                       | 128                                   | 06 | 37 | 2 57 <sup>58</sup>   |      |
|                       | 307                                   | 25 | 00 | 2 20 <sup>15.5</sup> |      |
|                       | 127                                   | 24 | 57 | 2 11                 |      |
|                       | 308                                   | 06 | 45 | 2 59                 |      |
|                       | 270                                   | 15 | 46 | 2                    |      |
|                       | 180                                   | 30 | 13 | 3                    |      |
|                       | 218                                   | 21 | 07 | 3 54 <sup>55</sup>   |      |
|                       | 37                                    | 39 | 32 | 3 19 <sup>17.5</sup> |      |

| Temp. 82° |     | BAR 28.45 |       | CORR. + 21 |                        |
|-----------|-----|-----------|-------|------------|------------------------|
| TO STA    | REF | DKT       | FEET  | DIST       | meters (63)            |
| CL-19     | 3   | 794       | .56   | 242        | 464 197<br>192 195     |
| CL-18-R   | 1   | 304       | 56    | 92         | 836 846<br>832 832 833 |
| BU-28     | 1   | 1474      | 82    | 449        | 526 529<br>527         |
| "         |     |           |       |            |                        |
| 18-R      |     |           |       |            |                        |
| CL-19     |     |           |       |            |                        |
| "         |     |           |       |            |                        |
| 18-R      |     |           |       |            |                        |
| BU-28     |     |           |       |            |                        |
| "         | 217 | 39        | 28 16 |            |                        |
| 18-R      | 38  | 21        | 08 56 |            |                        |
| CL-19     | 00  | 30        | 12    |            |                        |
| "         |     |           |       |            |                        |
| 18-R      |     |           |       |            |                        |
| BU-28     |     |           |       |            |                        |

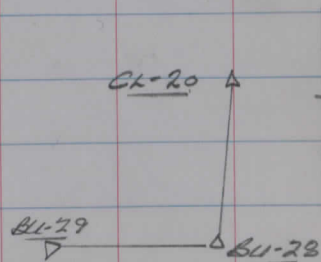


LR CL-18-R = 37° 50' 55.83"

LR BU-28 = 217° 09' 17.5"

| 5-21-84    | DURKEE ROAD Project |    |    | #.I  |
|------------|---------------------|----|----|------|
| AT STATION | HORIZONTAL          |    |    |      |
| BU-28      |                     |    |    | 6.45 |
| VERTICALS  |                     |    |    |      |
| 89-14-47   | 00                  | 00 | 17 | 6.00 |
|            | 263                 | 12 | 30 |      |
|            | 83                  | 12 | 34 | 14.5 |
| 270-45-17  | 180                 | 00 | 18 |      |
| 359-59-64  | 90                  | 05 | 24 |      |
| 4"         | 353                 | 17 | 36 | 12   |
|            |                     |    |    | 15   |
|            | 173                 | 17 | 41 | 18   |
|            | 270                 | 05 | 23 |      |
|            | 180                 | 30 | 14 |      |
|            | 83                  | 42 | 29 | 15   |
|            |                     |    |    | 14   |
|            | 263                 | 42 | 28 | 13   |
|            | 00                  | 30 | 15 |      |

| TO STA | Ref | DIST | FEET | DIST | meter       |
|--------|-----|------|------|------|-------------|
|        |     |      |      |      | 511 523     |
| CL-20  | 1   | 1474 | 81   | 449  | 520 526 526 |
| BU-29  |     |      |      |      |             |
| "      |     |      |      |      |             |
| CL-20  |     |      |      |      |             |
| "      |     |      |      |      |             |
| BU-29  |     |      |      |      |             |
| "      |     |      |      |      |             |
| CL-20  |     |      |      |      |             |
| "      |     |      |      |      |             |
| BU-29  |     |      |      |      |             |
| "      |     |      |      |      |             |
| CL-20  |     |      |      |      |             |



BU-29-LR = 263 - 12' - 14.5"

5-24-84  
AT STATION

Durkee Road Project  
REVIN DISTANCE CHECK

H.I

6.17

6.09

CL-17

VERTICALS

D. 90-37-53

I.

269-24-41

CL-18

D.

89-28-43

I.

270-33-51

Temp. 72°

BAR. 28.5 Corr. +18

(65)

TO STATION Ref.

DIST

Feet

Dist

Meters

CL-18

1

217

842 883  
875 883  
883 887  
881

CL-17

3

217

849 874  
863 871  
890 884

714 .83

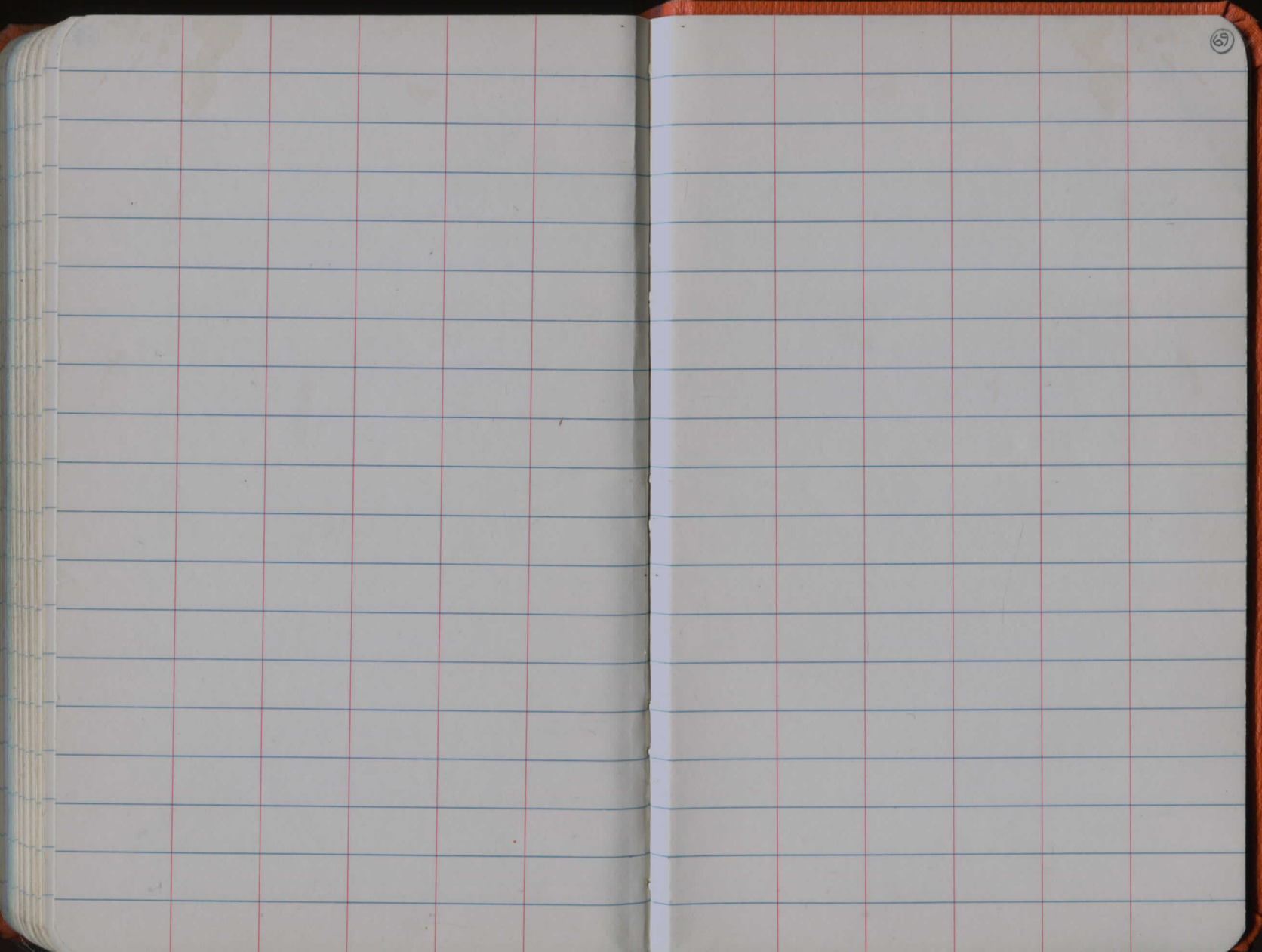
885 884  
881 887











57



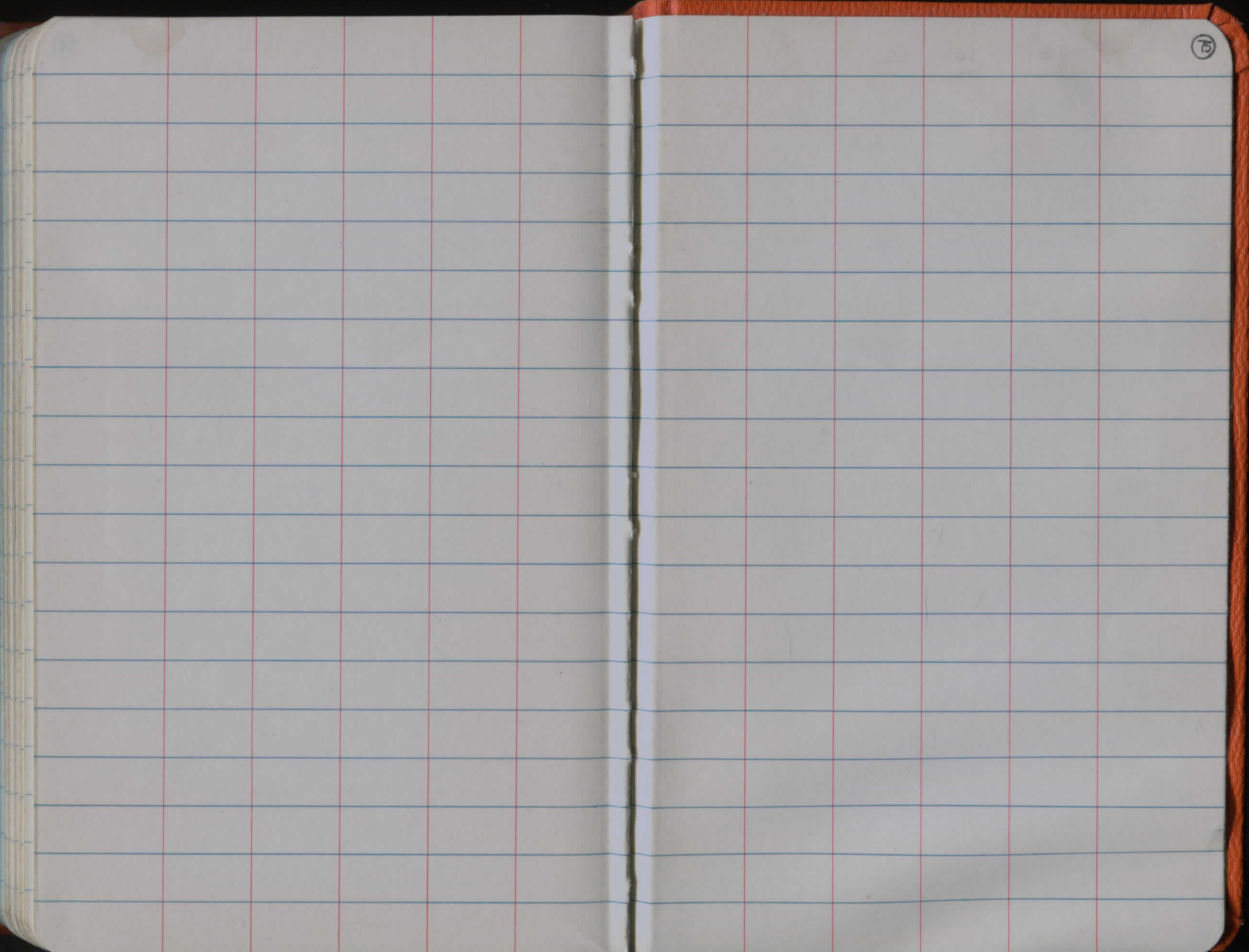












BU-15 = 6.00 817 4.80

801

805 = 4.20 816 4.60

BU-15-01 = 5.58 818 4.65

JR = 4.21 BU-32A 6.03

BU-15 5.72 821 4.83

809  
808 = 4.26

810  
809 = 3.90 - 30' W of E 958

811 BU-27 5.76 BU-28 5.84 217

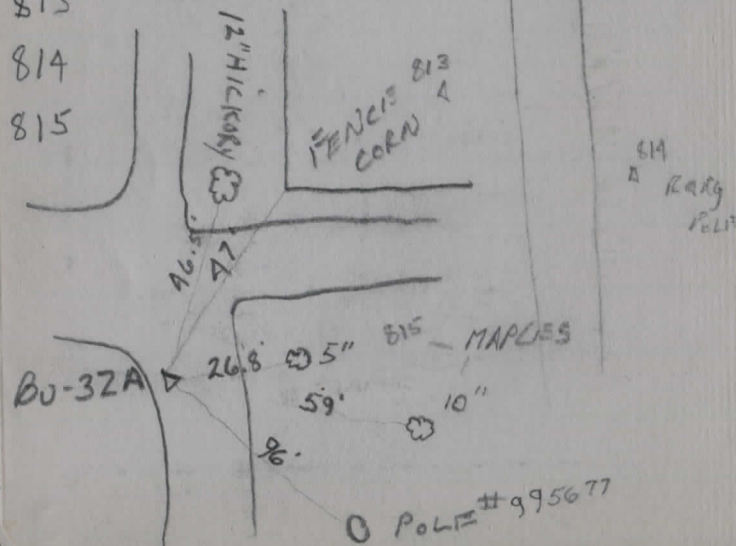
BU-26 5.34 811 A 741

812 FP.2 .98 811 A 636

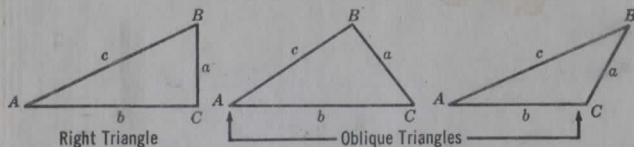
813 FP.1 .93 811 A 1812

814

815



### SOLUTION OF TRIANGLES



#### Solution of Right Triangles

For Angle A.  $\sin = \frac{a}{c}$ ,  $\cos = \frac{b}{c}$ ,  $\tan = \frac{a}{b}$ ,  $\cot = \frac{b}{a}$ ,  $\sec = \frac{c}{b}$ ,  $\text{cosec} = \frac{c}{a}$

| Given | Required   |
|-------|--|
| a, b  | A, B, c $\tan A = \frac{a}{b} = \cot B$ , $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$  |
| a, c  | A, B, b $\sin A = \frac{a}{c} = \cos B$ , $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$ |
| A, a  | B, b, c $B = 90^\circ - A$ , $b = a \cot A$ , $c = \frac{a}{\sin A}$                             |
| A, b  | B, a, c $B = 90^\circ - A$ , $a = b \tan A$ , $c = \frac{b}{\cos A}$                             |
| A, c  | B, a, b $B = 90^\circ - A$ , $a = c \sin A$ , $b = c \cos A$                                     |

#### Solution of Oblique Triangles

| Given      | Required   |
|------------|--|
| A, B, a    | b, c, C $b = \frac{a \sin B}{\sin A}$ , $C = 180^\circ - (A+B)$ , $c = \frac{a \sin C}{\sin A}$  |
| A, a, b    | B, c, C $\sin B = \frac{b \sin A}{a}$ , $C = 180^\circ - (A+B)$ , $c = \frac{a \sin C}{\sin A}$  |
| a, b, C    | A, B, c $A+B = 180^\circ - C$ , $\tan \frac{1}{2}(A-B) = \frac{(a-b) \tan \frac{1}{2}(A+B)}{a+b}$<br>$c = \frac{a \sin C}{\sin A}$                                 |
| a, b, c    | A, B, C $s = \frac{a+b+c}{2}$ , $\sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}}$<br>$\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}}$ , $C = 180^\circ - (A+B)$ |
| a, b, c    | Area $s = \frac{a+b+c}{2}$ , area = $\sqrt{s(s-a)(s-b)(s-c)}$  |
| A, b, c    | Area area = $\frac{bc \sin A}{2}$  |
| A, B, C, a | Area area = $\frac{a^2 \sin B \sin C}{2 \sin A}$   |

#### REDUCTION TO HORIZONTAL

Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10'. From Table, Page X, cos 5° 10' = .9959. Horizontal distance = 319.4 × .9959 = 318.09 ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10' = .9959. 1 - .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 - 1.31 = 318.09 ft. When the rise is known, the horizontal distance is approximately: the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = 302.6 -  $\frac{14 \times 14}{2 \times 302.6}$  = 302.6 - 0.32 = 302.28 ft.

