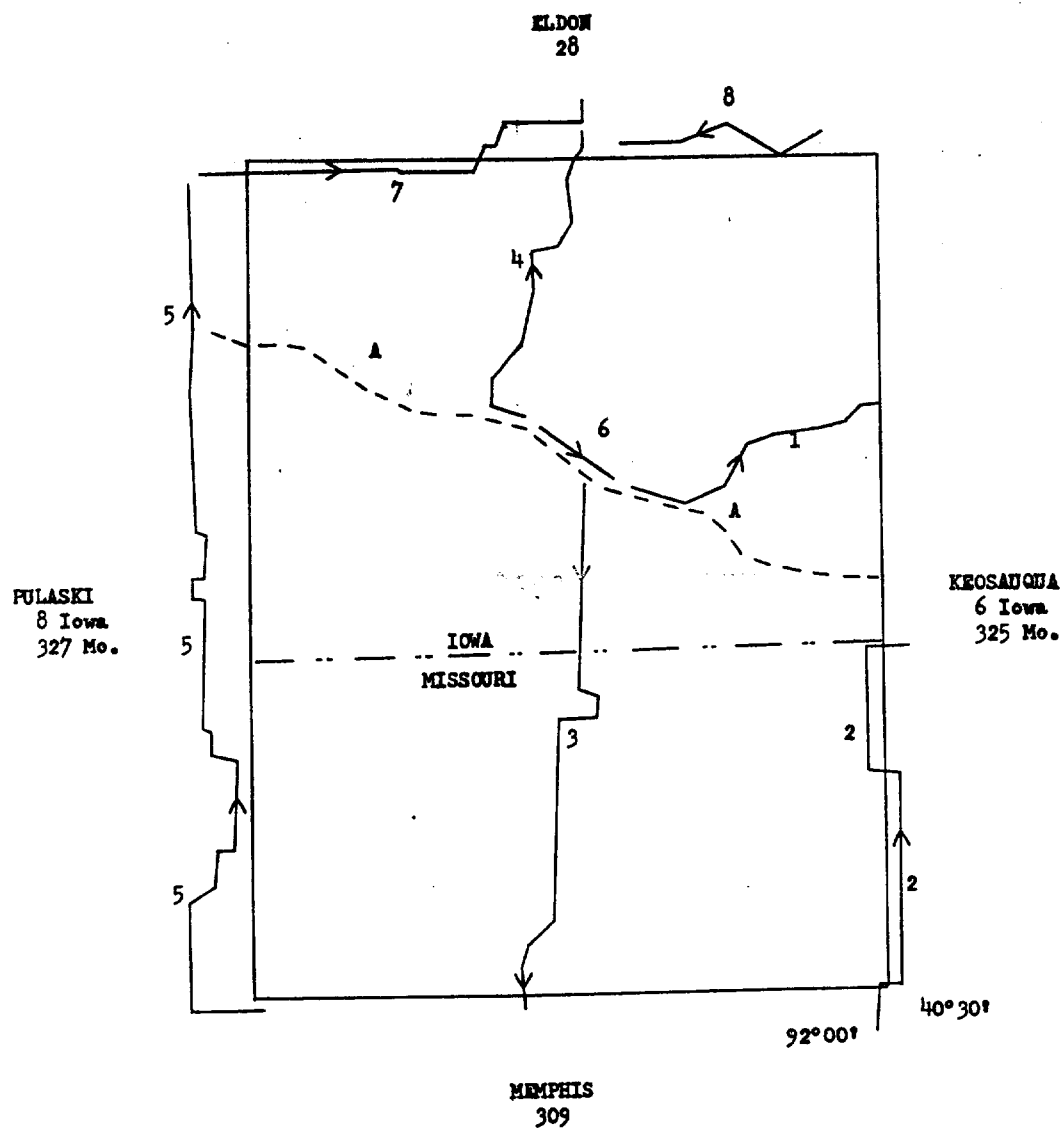


CANTRIL QUADRANGLE  
7 Iowa, 326 Missouri  
N4030-W9200/15  
Diagram NK 15-11  
Centerville, Iowa, Missouri

Van Buren County, Iowa  
Scotland County, Missouri

Edition of 2/8/67  
PR: AH/mp



### USC&GS LEVELING

A. Quadrangle No. 400921

2  
Cantril Quadrangle  
7 Iowa, 326 Missouri

LINE 1

Feet

EAST IN NORTHEAST PORTION OF QUADRANGLE. Elevations are to be considered preliminary pending additional investigation (by R. G. Wood, 1966; Book CV 2050)

CANTRIL QUAD., 7 Iowa

- 2 14 0.0 Cantril, 1.1 mi W. along the Chicago, Burlington and Quincy RR. from the station at; Van Buren County; midway between pole 64+15 and 64+16, 45 ft E. of the center of the track, 18 ft S. of the center of State Hwy. 2; at a 2 by 2 ft concrete culvert under the hwy., in the top of the E. end of the S. headwall; and about 5 ft lower than the track; a standard US&GS disk, stamped "J 121 1935", painted "BM 782.1" 782.101
- 14 0.9 UE J 121 A; 0.9 mi E. along State Hwy. 2 from disk; 13 ft S. and 0.1 ft higher than hwy. at drain crossing; on E. end of concrete curbing of a spillway; a chiseled square, painted "UE 755.6" Water 7.0 ft lower 755.65
- 15 2.0 UE J 121 B; about 2.0 mi E. along State Hwy. 2 from disk; 1.3 ft SE. and 0.1 ft higher than road at drain; on NE. curbing of concrete spillway; a chiseled square, painted "UE 679.2" 679.28
- 16 3.0 Reference mark; about 370 ft SW. of tablet, 13 ft NW. and 0.1 ft higher than road at drain on SW. curbing of a concrete spillway; a chiseled square, painted "RM" 696.14
- 16 3.0 Cantril, about 2.0 mi NE. along State Hwy. 2 from; at a State Park camping area; T. 68 N., R. 10 W.; near approximate quarter corner sections 19 and 30; 57 ft NW., 42 ft SW. and 2.4 ft lower than T-rd. NW. (normal to road); 7 ft SW. of telephone pole, 1.5 ft SE. of fence and in concrete post; a standard tablet stamped "14 RGW 1966", painted "BM 705.1" 705.150
- 17 4.1 UE 14 RGW A; 1.1 mi E. along State Hwy. 2 from tablet; 13 ft S., and 0.6 ft higher than road at drain crossing; on E. curbing of a concrete spillway, a chiseled square, painted "UE 761.4" 761.53
- 18 5.2 UE 14 RGW B; about 2.3 mi NE. along State Hwy. 2 from tablet; 15 ft E. and 0.4 ft higher than center of road at drain crossing; on N. end of curbing of concrete spillway; a chiseled square, painted "UE 721.3" 721.37

KEOSAUQUA QUAD., 6 Iowa

- 19 6.4 Reference mark; 245 ft W. of tablet; 24 ft S. and 197 ft W. of crossroads; in center of S. headwall of a 3 ft concrete box culvert; a chiseled square, painted "RM" 726.01
- 19 6.4 Cantril, about 5.3 mi NE. along State Hwy. 2 from, about 4.0 mi S. and about 2.5 mi W. of; T. 68 N., R. 10 W.; near approximate center of sec. 22; 30 ft S., 48 ft E. and 2.6 ft higher than crossroads; 4.0 ft SE. of power pole; 2 ft N. of state right-of-way fence and in concrete post; a standard tablet stamped "15 RGW 1966", painted "BM 736.3" 736.393
- 21 7.6 UE 15 RGW A; about 1.2 mi E. along State Hwy. 2 from tablet; 15 ft S., and 0.3 ft higher than road at drain; on W. end of curbing of a concrete spillway; a chiseled square, painted "UE 685.4" 685.53

LINE 2

Feet

NORTH ALONG SOUTH PORTION OF EAST BORDER (by R. G. Wood, 1966; Book CV 2050)

NOTE: This line supersedes a line by W. V. Kennedy in 1937.

MEMPHIS QUAD., 309 Mo.

- |   |    |     |                                                                                                                                                                                                                                                                                             |         |
|---|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 | 28 | 2.4 | Arbela, about 2.0 mi N. and about 0.5 mi E. of; T. 66 N., R. 10 W.; near approximate E. sixteenth cor. secs. 28 and 33; 51 ft S., 18 ft W. and same elevation as T-rd. W., 1.5 ft W. of a 6-in. walnut tree; in concrete post; a standard tablet stamped "TT 25 G 1935", painted "EM 743.9" | 743.899 |
|   | 28 | 2.4 | Reference mark; 17 ft N. of tablet; 24 ft S. and 18 ft W., on S. and 18-in. corrugated steel culvert; a punched hole, not painted                                                                                                                                                           | 742.40  |
|   | 30 | 3.7 | UE 25 G A; about 0.5 mi N., 0.2 mi E., thence 0.5 mi N. along road from tablet; 12 ft S., 15 ft W. and 0.6 ft lower than crossroads; on S. end of an 18- inch corrugated steel culvert; a punched hole, painted "UE 670.6"                                                                  | 670.62  |

CANTRIL QUAD., 7 Iowa

- |    |     |                                                                                                                                                                                                                                     |        |
|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 31 | 4.7 | UE 25 G B; 0.5 mi N., 0.2 mi E. thence 1.5 mi N. along road from tablet; at a small wooden bridge over drain, held on a steel I-beam on W. side of road; beam is exposed due to broken timber; a painted square, painted "UE 718.1" | 718.10 |
|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

KEOSAUQUA QUAD., 6

- |    |     |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |        |
|----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 32 | 5.5 | Arbela, about 4.0 mi N. and about 1.0 mi E. of; T. 66 N., R. 10 W.; near approximate W. $\frac{1}{2}$ of sec. 15; 162 ft SW.; 36 ft S. and 4.6 ft higher than T-rd. SW. (County Hwy. N.) NW.-SE., 45 ft NE. of NE. corner of small white frame house, at edge of small clump of bushes, and in concrete post; a standard tablet stamped "TT 24 G 1935", painted "EM 768.6" | 768.791                                                                                                                                                            |        |
|    | 32  | 5.5                                                                                                                                                                                                                                                                                                                                                                        | Reference mark; about 150 ft NE. of tablet; 51 ft NW. and 36 ft SW. of T-rd. SW., on S. side of telephone pole; 12 inches above ground; a rail spike, painted "RM" | 766.24 |

CANTRIL QUAD., 7 Iowa

- |    |     |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                        |         |
|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 33 | 6.6 | UE 24 G A; about 1.1 mi NW. along county road "N" from tablet; 144 ft NE. (along road), 81 ft S. and 3.9 ft higher than T-rd. NE., on N. side of telephone pole; 10 inches above ground level; a rail spike, painted "UE 759.5" | 759.48                                                                                                                                                                                                                                                                                                                                                                 |         |
|    | 35  | 7.7                                                                                                                                                                                                                             | UE 24 G B; about 1.1 mi NW., thence 1.0 mi N. along roads from tablet; 27 ft S., 33 ft E. and 0.9 ft lower than T-rd. S., on W. side of power pole; 11-inches above ground level, a rail spike, painted "UE 712.9"                                                                                                                                                     | 712.91  |
|    | 37  | 8.2                                                                                                                                                                                                                             | UE 24 G C; about 1.1 mi NW., thence 1.5 mi N. along roads from tablet; about 400 ft W. of a trail S., 11 ft N. and 1.8 ft lower than road at drain; on N. end of an 18-in. corrugated steel culvert; a punched hole; painted "UE 727.5"                                                                                                                                | 727.48  |
|    | 38  | 8.8                                                                                                                                                                                                                             | Arbela, about 6.5 mi N. of; about 4.0 mi S. and 4.0 mi W. of Mt. Sterling; Ts. 66 and 67 N., R. 10 W.; near quarter cor. secs. 4 and 33; 30 ft N., 33 ft E. and 0.9 ft lower than T-rd. N.; 7 ft E. of power pole and in concrete post; a standard tablet stamped "16 ROW 1966", painted "EM 755.7" NOTE: This EM replaces "TT 23 G 1935" which was reported destroyed | 755.652 |

4  
Cantril Quadrangle  
7 Iowa, 326 Missouri

| <u>Line 2 Cent'd.</u> | <u>CANTRIL QUAD., 7 Iowa</u>                                                                                                                                                                                                                                                                                                                   | <u>Feet</u> |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 2 38 8.8              | Reference mark; 55 ft W. of tablet; 32 ft N. and 23 ft W. of T-rd. N.; on SE. side of power pole, 6 inches above ground level; a rail spike painted "RM"                                                                                                                                                                                       | 760.80      |
| 40 10.1               | UE 16 RGW A; about 1.3 mi N. along an old trail and cross country from tablet; at a wooden bridge over drain, on the E. side of the bridge, on a steel girder plate, a chiseled cross, painted "UE 670.2" Drain 9.5 ft lower                                                                                                                   | 670.14      |
| 42 11.0               | UE 16 RGW B; about 0.8 mi N. along an unimproved road from UE 16 RGW A; about 2.1 mi N. of BM.; about 260 ft N., 31 ft W. and 8.7 ft higher than drive W. to farm; on SE. side of power pole; 10 inches above ground, a rail spike, painted "UE 762.8"                                                                                         | 762.77      |
| 43 11.6               | UE 16 RGW C; about 2.8 mi N. of tablet; about 1.5 mi N. of UE 16 RGW A; 33 ft S., 36 ft E. and 3.6 ft higher than T-rd. S., on NW. side of telephone pole; 10 inches above ground level; a rail spike, painted "UE 754.3"                                                                                                                      | 754.26      |
| 44 12.1               | Mt. Sterling, about 1.0 mi S. and 3.0 mi W. of; T. 67 N., R. 10 W.; near approximate cor. secs. 15, 16, 21 and 22; 100 ft SE. and 36 ft NE.; 30 ft S. and 100 ft E. along drive E. to farmhouse; 3.0 ft S. of corner fence post; 1 ft W. of fence and in concrete post; a standard tablet stamped "TT 26 G 1935 RESET 1954" painted "BM 760.9" | 760.861     |
| 44 12.1               | Reference mark; 80 ft WNW. of tablet; 13 ft N. and 51 ft E. of road turn N.-S. and W., on NE. end of an 18-in. corrugated steel culvert; a punched hole, not painted                                                                                                                                                                           | 756.13      |

KEOSAUQUA QUAD., 6

|         |                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 45 13.2 | UE 26 G; about 1.1 mi E.-NE. along a gravel road from tablet; 22 ft N., 22 ft W. and 2.4 ft lower than road at a dim road N. into timber; on N. end of a 30 inch corrugated steel culvert; a punched mark, painted "UE 720.1"                                                                                                                                                                                      | 720.14  |
| 46 14.2 | UE 26 G B; about 2.1 mi E.-NE. along a gravel road from tablet; 46 ft S., 16 ft E. and 0.9 ft lower than triangle formed by T-rd. S.; on E. end of a 24 inch corrugated steel culvert; a punched mark, painted "UE 737.0"                                                                                                                                                                                          | 736.99  |
| 47 14.7 | Mt. Sterling, 1.9 mi W. along the C.B.&Q. RR. from the station at; Van Buren County, 95 ft W. of milepost 57, at a road crossing; 33 ft N. of the center of the track, 25 ft E. of the center of the road; 13 ft S. of the right-of-way fence; 5 ft W. of a pole, and about 18 inches lower than the track; a standard USC&GS disk, stamped "W 121 1935" and set in the top of a concrete post; painted "BM 656.5" | 656.501 |

LINE 3

SOUTH THROUGH CENTER OF SOUTH PORTION OF QUADRANGLE (by R. G. Weed, 1966; Book CV 2050)

CANTRIL QUAD., 7 Iowa

|          |                                                                                                                                                                                                                                                                                                                                                         |         |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 48 0.0 | Milton, 2.4 mi SE. along the C.B.&Q. RR. from the station at, Van Buren County, at pole 66+10, at a road crossing; 52 ft SE. of the center of the road; 9 ft SE. and 5 ft NE. of a right-of-way fence corner and about 2 ft lower than the track, a standard USC&GS disk, stamped "H 121 1935" and set in the top of a concrete post; painted BM 795.1" | 795.064 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

| <u>Line</u> | <u>3</u> | <u>Cont'd.</u> | <u>CANTRIL QUAD., 7 Iowa</u>                                                                                                                                                                                                                                                                                                                                                         | <u>Feet</u> |
|-------------|----------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 2           | 48       | 1.1            | UE H 121 A; about 1.1 mi S. along a gravel road from disk; 6 ft E. and about 0.2 ft lower than N. end of wooden deck bridge over Little Fox River; in a wooden deck plank, on N. end of bridge; a copper nail and washer, painted "UE 719.8" Water 20 ft lower                                                                                                                       | 719.84      |
|             | 49       | 2.1            | UE H 121 B; about 2.1 mi S. along a gravel road from disk; 31 ft S., 39 ft E. and 2.4 ft higher than T-rd. E., on S. side of power pole; 10 inches above ground, a rail spike, painted "UE 795.9"                                                                                                                                                                                    | 795.91      |
|             | 50       | 3.4            | Reference mark; 70 ft NW. of tablet; 23 ft N. and 15 ft W. of crossroad; on W. end of corrugated steel culvert; a punched hole, painted "RM"                                                                                                                                                                                                                                         | 779.33      |
|             | 50       | 3.4            | Milton, about 4.0 mi S. and about 1.5 mi E. of; about 2.5 mi S. and 2.5 mi W. of Cantril; T. 67 N., R. 11 W.; near cor. secs. 9, 10, 15 and 16; 43 ft S., 20 ft E. and 2.1 ft higher than crossroad; 7 ft S. of power pole; 2.5 ft W. of E. right-of-way fence, and in concrete post; a standard tablet stamped "17 RGW 1966", painted "RM 782.3" (1 ft W. of standard witness post) | 782.344     |
|             | 51       | 4.5            | UE 17 RGW A; about 1.1 mi across country from tablet; about 270 ft S. of T-rd.; and 1.5 ft higher than T-rd. S.; 41 ft W. of center of road and on N. side of power pole; 11 inches above ground level, a rail spike, painted "UE 795.6"                                                                                                                                             | 795.66      |
|             | 53       | 5.6            | UE 17 RGW B; about 2.1 mi S. of tablet; about 890 ft W. and 45 ft lower than T-rd. W., 15 ft S. and 0.3 ft lower than road at drain crossing road; on E. end of S. headwall of a 12 feet concrete bridge; a chiseled square, painted "UE 724.0" Water 10 ft lower                                                                                                                    | 724.01      |
|             | 54       | 6.6            | UE 17 RGW C; about 2.6 mi S. and 0.5 mi W. of tablet; 6 ft E. and 0.6 ft lower than center of bridge over drain; on E. end of a steel girder on the N. end of the bridge; a chiseled cross; painted "UE 714.5" water 11.5 ft lower                                                                                                                                                   | 714.54      |
|             | 55       | 7.1            | Reference mark; about 102 ft E. of tablet, 102 ft NE. and 15 ft N. (normal) to road; on NW. end of a 12-in. corrugated steel driveway culvert; a punched hole, not painted                                                                                                                                                                                                           | 774.63      |
|             | 55       | 7.1            | Cantril, about 5.5 mi S. and 3.0 mi W. of; Ts. 66 and 67 N., R. 11 W.; near approximate cor. secs. 32, 33, 4 and 5; 40 ft N. and 34 ft W. of road at driveway NE. to farm, 4 ft WSW. of power pole; 3 ft E. of standard witness post; and in concrete post; a standard tablet stamped "18 RGW 1966", painted "RM 780.0"                                                              | 780.025     |
|             | 56       | 8.1            | UE 18 RGW A; 1.0 mi S. along a dirt road from tablet; 16 ft N., 30 ft E. and 1.2 ft lower than crossroad; on W. end of an 18-in. corrugated steel driveway culvert; a punched hole, painted "UE 793.4"                                                                                                                                                                               | 793.49      |
|             | 57       | 9.0            | UE 18 RGW B; 1.7 mi S. along a dirt road from tablet; 13 ft N., 7 ft E. and 1.2 ft lower than center of bridge over drain; on a 2-in. extension of a steel girder, on N. end of bridge; a chiseled cross; painted "UE 731.8" Water 7.2 ft lower                                                                                                                                      | 731.88      |
|             | 59       | 10.2           | Reference mark, 31 ft W. of tablet; 9 ft N., 12 ft W. and 0.6 ft lower than T-rd. W., on N. end of 12-in. corrugated steel culvert; a punched hole, painted "RM"                                                                                                                                                                                                                     | 789.42      |
|             | 59       | 10.2           | Cantril, about 8.5 mi S. and 3.0 mi W. of; about 5.0 mi N. and 2.0 mi E. of Memphis; T. 66 N., R. 11 W.; near cor. secs. 16, 17, 20 and 21; 7 ft N. and 19 ft E. of T-rd. W., 3 ft NW. of power pole; 3.5 ft SW. of standard witness post; and in concrete post; a standard tablet stamped "19 RGW 1966", painted "RM 792.9"                                                         | 793.000     |

Cantril Quadrangle  
7 Iowa, 326 Missouri

Line 3 Cont'd.CANTRIL QUAD., 7 IowaFeet

2 60 11.3 UE 19 RGW A; about 0.3 mi S., thence 0.3 mi W., thence 0.5 mi SW. along rds. from tablet; 6 ft NE., 5.5 ft SE. and 1.2 ft lower than bridge over drain; on an 8-in. steel girder extension on NE. end of bridge; held on a hole in girder; painted "UE 701.6" 701.64

MEMPHIS QUAD., 309 Mo.

61 12.1 UE 19 RGW B; about 0.3 mi S., thence 0.3 mi W., thence 1.3 mi SW. along road from tablet; 21 ft N., 24 ft W. and 2.7 ft lower than crossroad; on W. end of an 18-in. corrugated steel culvert; a punched hole; painted "UE 768.1" 768.12

62 12.9 UE 19 RGW C; about 0.3 mi S., thence 0.3 mi W., thence 2.0 mi SW. along roads from tablet; 9 ft S., 15 ft E. and 1.8 ft lower than N.-S. road at a T-rd. E. to farm; on S. end of a 12-in. corrugated steel culvert; a punched hole, painted "UE 763.5" 763.61

64 14.3 Reference mark No. 1; about 190 ft S. of tablet; 120 ft S., and 17 ft E. of T-rd. S., on E. end of a 24-in. steel corrugated culvert; a punched hole, not painted 770.82

65 14.3 Memphis, about 1.0 mi N. and 1.0 mi E. of; T. 65 N., R. 11 W.; near approximate W.  $\frac{1}{2}$  of sec. 5; 53 ft N. of T-rd. S., 2.5 ft E. of a corner fence post; 2.5 ft E. of a standard witness post and in concrete post; a standard tablet stamped "20 RGW 1966", not painted 782.784

64 14.3 Reference mark No. 2; 90 ft SW. of tablet; 39 ft S. and 51 ft W. of T-rd. S., on S. side of power pole; 8 inches above ground level; a rail spike, painted "RM 781.8" 781.87

LINE 4

NORTH THROUGH CENTER OF NORTH PORTION OF QUADRANGLE (by R. G. Wood, 1966; Book CV 2050)

CANTRIL QUAD., 7 Iowa

2 70 0.0 "H 121 1935" (previously described in line 3) 795.064

70 0.9 UE H 121 L; about 0.9 mi W. along State Hwy. 2 from disk; 27 ft S., 18 ft E. and 1.3 ft lower than T-rd. N., on E. side of power pole; 12 inches above ground level; a rail spike, painted "UE 796.2" 796.17

71 1.7 UE H 121 M; about 0.9 mi W. along State Hwy. 2, thence 0.8 mi N. along a gravel road, 71 ft S. and 30 ft W. of cross-~~we~~ read N. and W.; on W. side of power pole; 13 inches above ground level; a rail spike, painted "UE 793.3" 793.36

72 2.8 Reference mark; 60 ft NE. of tablet, 18 ft N. and 21 ft E. of tablet; on N. end of an 18-in. corrugated steel culvert; a punched hole, painted "RM" 777.20

72 2.8 Milton, about 0.5 mi E. of the center of; T. 68 N., R. 11 W.; near the W.  $\frac{1}{2}$  of sec. 20; 29 ft S., 31 ft W. and 0.2 ft lower than crossroad; 3 ft W. of power pole, 3.5 ft E. of standard witness post; in concrete post; a standard tablet stamped "21 RGW 1966", painted "RM 780.0" 780.039

73 3.8 UE 21 RGW A; about 1.0 mi N. along a gravel road from tablet; 7 ft SW., 27 ft SE. (normal to road) and 0.6 ft higher than road at driveway E. to W. L. Brown farm, on S. end of 12 inch corrugated steel culvert; a punched hole, painted "UE 792.5" 792.52

| <u>Line 4 Cont'd.</u> | <u>CANTRIL QUAD., 7 Iowa</u>                                                                                                                                                                                                                                                                                                                                                              | <u>Feet</u> |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 2 74 4.3              | UE 21 ROW B; about 1.6 mi N.-NE. along county road "U" from tablet; 57 ft N., 12 ft W. and same elevation as bridge over Fox River; in the center of the NW. concrete wingwall of the bridge, a chiseled square, painted "UE 704.0"                                                                                                                                                       | 703.99      |
| 76 5.9                | Reference mark; 179 ft S. of tablet; 85 ft S. and 55 ft W. of tablet; on N. side of power pole, 14 inches above ground level; a rail spike, painted "RM"                                                                                                                                                                                                                                  | 790.03      |
| 76 5.9                | Hilton, about 2.5 mi N. and 1.5 mi E. of; T. 68 N., R. 11 W.; near cor. secs. 4, 5, 8 and 9; 94 ft N., 40 ft W. and 0.3 ft higher than triangle formed by vye road; 21 ft NE. of NE. corner of ear garage at farm house, 3 ft NE. of corner fence post; 3 ft SE. of standard witness post; and in concrete post; a standard tablet stamped "22 ROW 1966", painted "RM 789.8"              | 789.84      |
| 77 6.8                | UE 22 ROW A; about 0.9 mi N. along a dirt road from tablet; 27 ft S., 18 ft E. and 2.7 ft lower than T-rd. S., on S. end of an 18-in. concrete tube culvert; a chiseled square, painted "UE 796.0"                                                                                                                                                                                        | 796.07      |
| 78 7.7                | UE 22 ROW B; about 0.9 mi N., thence about 0.9 mi E. along road from tablet; 18 ft S., 36 ft E. and 1.8 ft lower than crossroad; on S. end of 4-in. concrete tube culvert; a chiseled square, painted "UE 800.2"                                                                                                                                                                          | 800.30      |
| 79 8.9                | Reference mark; about 430 ft SE. of tablet; 16 ft N., 22 ft E. and 1.5 ft higher than T-rd. E., in top of a 24-in. stump; driven vertically, a rail spike, painted "RM 798.5"                                                                                                                                                                                                             | 798.61      |
| 79 8.9                | Hilton, about 4.5 mi N. and about 2.0 mi E. of; T. 69 N., R. 11 W.; near approximate cor. secs. 27, 28, 33 and 34; about 425 ft NW. along road from T-rd. E., 35 ft W.-SW. of center of road at fence line E. (next to row of pine trees); 1.5 ft N. of power pole; 3.5 ft E. of standard witness post; and in concrete post; a standard tablet stamped "23 ROW 1966", painted "RM 793.9" | 793.928     |

ELDON QUAD., 28 Iowa

|           |                                                                                                                                                                                                                                                                                                                                                                       |         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2 13 10.3 | Bonds, 5.3 mi S. and 1.3 mi W. of concrete bridge over Des Moines River; at; T. 69 N., R. 11 W.; in SW $\frac{1}{4}$ sec. 22; 454 ft N. of T-rd. SE.; 71 ft N., 11.8 ft W. and 2.2 ft higher than center of concrete bridge over Chequest Creek, in top of the N. end of the concrete bridge banister; a standard tablet stamped "24 FBR 1964 655" painted "RM 655.3" | 655.231 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

LINE 5

NORTH ALONG WEST BORDER (by R. G. Weed, 1966; Book CV 2050)

MEMPHIS QUAD., 309 Mo.

|         |                                                                                                                                                                                                                                                                                                                                                                          |         |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 3 1 0.0 | Crawford, 2.0 mi E. along the G.B.&Q. RR. from the station at; Scotland County, 3 poles W. of milepost 49, at a road crossing; 32 ft S. of the center of the track, 17 ft W. of the center of the road, in line with a row of poles, and 2 ft higher than the track. A standard USGAS disk stamped "U 86 1935" and set in the top of a concrete post; painted "RM 720.2" | 720.153 |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

Cantril Quadrangle  
7 Iowa, 326 Missouri

| Line 5 Cont'd.                                                                                                                                                                                                                                                                                                         | DOWNING QUAD., 310 Mo. | Feet    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|
| 3 1 0.5 UE G 86 A; about 0.5 mi W. along RR. track from disk; in center of N. rail at a field road N.-S.; a painted square; center of track is same elevation; painted "UE 728.1"                                                                                                                                      |                        | 728.1   |
| 2 2.0 UE G 86 B; about 2.0 mi W. along RR. tracks from disk; 33 ft S., 60 ft E. and 0.3 ft higher than read at RR. crossing; on E. side of telephone pole; 10 inches above ground level, a rail spike, painted "UE 734.5"                                                                                              |                        | 734.49  |
| 3 2.5 Reference mark; 256 ft SW. of tablet; 12 ft W. and 0.9 ft higher than S. end of bridge over river; in S. end of W. bridge abutment; a chiseled square, painted "RM"                                                                                                                                              |                        | 725.71  |
| 3 2.5 Memphis, about 1.5 mi N. and about 5.5 mi W. of; T. 66 N., R. 12 W.; near S. sixteenth cor. secs. 31 and 32; 12 ft E. of center of N. end of bridge over North Fabius River; in N. end of E. concrete bridge abutment; a standard old bronze tablet stamped "24 RGW 1966" painted "BM 725.7" water 25 ft lower   |                        | 725.732 |
| 4 3.3 UE 24 RGW A; about 0.8 mi N. along a paved county hwy. from tablet; 14 ft W. and 0.3 ft lower than read at drain crossing road; about 0.2 mi S. of T-rd. W.; in center of W. headwall of a 5 ft concrete box culvert; a chiseled square, painted "UE 755.6" Drain 6 ft lower                                     |                        | 755.58  |
| PULASKI QUAD., 8 Iowa<br>327 Mo.                                                                                                                                                                                                                                                                                       |                        |         |
| 6 4.6 UE 24 RGW B; about 2.0 mi N. along a paved county hwy. from tablet; 12 ft W. and 1.8 ft higher than read at drain crossing; on S. end of W. concrete headwall of a 5 ft concrete box culvert; a chiseled square, painted "UE 765.7" Drain 14.0 ft lower                                                          |                        | 765.71  |
| 7 5.4 Memphis, about 5.0 mi N. and about 5.5 mi W. of; T. 66 N., R. 12 W.; near cor. secs. 17, 18, 19 and 20; 90 ft S. and 39 ft W. of County Hwy. B; at drive W. to farmhouse; 51 ft SE. of SE. cor. of house and in concrete post; a standard tablet stamped "TT 13 G 1935" painted "BM 781.1"                       |                        | 781.158 |
| 8 6.4 UE 13 G A; about 1.0 mi N.-NE. along County Hwy. "B" from tablet; 60 ft NE., 15 ft NW. (normal to road) and 2.7 ft lower than triangle formed by jct. of county road "C" E.; on W. end of an 18-in. corrugated steel culvert; a painted square, on bent culvert; painted "UE 798.3"                              |                        | 798.37  |
| 9 7.3 UE 13 G B; about 1.9 mi N.-NE. along County Hwy. "B" from tablet; 36 ft N., 15 ft W. and 0.6 ft higher than read at drive N. to farmhouse; on SE. side of telephone pole; 12 inches above ground level; a rail spike, painted "UE 836.5"                                                                         |                        | 836.55  |
| 10 7.9 Reference mark; 180 ft SW. of tablet; 21 ft S. 18 ft W. and 1.8 ft lower than T-rd. E.; on S. end of an 18-in. corrugated steel culvert; a punched hole, painted "RM"                                                                                                                                           |                        | 829.53  |
| 10 7.9 Memphis, about 7.0 mi N. and 4.5 mi W. of; T. 66 N., R. 12 W.; near cor. secs. 4, 5, 8 and 9; about 1.0 mi S. of HITT; 150 ft N. and 31 ft E. of T-rd. E., 2 ft W. of E. right-of-way fence, 1.5 ft NW. of standard witness post; in concrete post; a standard tablet stamped "TT 14 G 1935" painted "BM 835.4" |                        | 835.380 |

| <u>Line 5 Cont'd.</u> |                                                                                                                                                                                                                                                                                                                                                                                         | PULASKI QUAD., 8 Iowa<br>327 Mo. | <u>Feet</u> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------|
| 3 12 8.9              | UE 14 G A; about 1.0 mi N. along county road "C" from tablet; 45 ft N., 70 ft E. and 6 ft higher than T-rd. N. on the NE. end of the third step of a concrete perch to an abandoned store building; a chiseled square, painted "UE 801.3"                                                                                                                                               |                                  | 801.30      |
| 13 9.9                | UE 14 G B; about 1.9 mi N. along roads from tablet; 10 ft E. and 1.2 ft lower than center of bridge over drain; on a 2 inch steel girder extension; a chiseled square, painted "UE 752.5" Water 8.5 ft lower                                                                                                                                                                            |                                  | 752.52      |
| 14 10.9               | Reference mark; 100 ft E. of tablet; 89 ft S., 94 ft E. of road at drive to farm W., on SE. side of power pole, about 16 inches above ground level, a rail spike, painted "RM 831.9"                                                                                                                                                                                                    |                                  | 831.92      |
| 14 10.9               | Memphis, about 9.5 mi N. and about 5.0 mi W. of; T. 67 N., R. 12 W.; near approximate W $\frac{1}{2}$ of sec. 29; 70 ft S., 66 ft W. and 1.5 ft higher than road at drive entrance W. to farm; about 400 ft N. of T-rd. E.; on the S. end of the bottom step of a concrete perch of an abandoned school, set in place, in E. perch; a standard tablet stamped "25 RGW 1966" not painted |                                  | 832.162     |
| 16 11.9               | UE 25 RGW A; about 1.0 mi N. along a dirt road from tablet; 9 ft W. and 0.4 ft higher than N. end of large steel bridge over Wyacenda Ditch; held on top of a painted 1-in. steel belt in wooden head rail; painted "UE 753.0" water 26 ft lower                                                                                                                                        |                                  | 753.00      |
| 17 13.0               | UE 25 RGW B; about 2.0 mi N. along a dirt and gravel road from tablet; 19 ft N., 42 ft E. and 0.4 ft higher than road at field entrance E., on SW. side of telephone pole; 16 inches above ground level; a rail spike; painted "UE 841.7"                                                                                                                                               |                                  | 841.44      |
| 18 14.1               | Memphis, about 12.5 mi N. and about 5.0 mi W. of; about 5.0 mi S. of Pulaski; T. 67 N., R. 12 W.; near W. sixteenth cor. of secs. 5 and 8; about 300 ft W. of T-rd. N., 13 ft N. and 0.3 ft higher than road at drain crossing; in center of N. headwall of an 8-ft. concrete box culvert; set in place; a standard tablet stamped "26 RGW 1966", painted "RM 830.4"                    |                                  | 830.481     |
| 18 14.1               | Reference mark; about 350 ft E. of tablet; 48 ft N., 43 ft E. and 0.9 ft higher than T-rd. N., on W. side of power pole; 12 inches above ground level; a rail spike, painted "RM 833.3"                                                                                                                                                                                                 |                                  | 833.39      |
| 19 15.3               | UE 26 RGW A; about 1.2 mi N. along a gravel road from tablet; 10 ft E. and 0.9 ft higher than N. end of bridge over North Wyacenda Creek; held on top of a painted 1-in. steel belt; in wood head rail; painted "UE 775.1" water 13 ft lower                                                                                                                                            |                                  | 775.13      |
| 20 16.4               | UE 26 RGW B; about 2.3 mi N. along a gravel road from tablet; 18 ft S., 30 ft W. and 0.4 ft lower than dim T-rd. W., on W. side power pole; 12 inches above ground level; a rail spike, painted "UE 831.8"                                                                                                                                                                              |                                  | 831.81      |
| 21 16.8               | Reference mark; 27 ft SE. of tablet; 10 ft E. and 0.1 ft lower than bridge over drain; on S. end of E. headwall of a 12 ft concrete bridge; a chiseled square, painted "RM"                                                                                                                                                                                                             |                                  | 793.98      |
| 21 16.8               | Pulaski, about 2.5 mi S. of; T. 68 N., R. 12 W.; near approximate quarter corner secs 29 and 30; 11 ft W. of center of N. end of bridge; and in N. end of W. concrete headwall; set in place; a standard tablet stamped "27 RGW 1966", painted "RM 794.1"                                                                                                                               |                                  | 794.166     |

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Cantril Quadrangle  
7 Iowa, 326 Missouri

Line 5 Cont'd.

PULASKI QUAD., 8 Iowa  
327 Mo. Feet

- 3 22 18.0 UE 27 RGW A; 1.2 mi N. along a gravel read from tablet; 30 ft W. and same elevation as road at drain crossing; on N. end of W. headwall of a 20 ft concrete bridge; a chiseled square, painted "UE 791.2" drain 12 ft lower 791.27
- 23 19.2 At Pulaski, Davis County, on the C.B.&Q. RR.; 120 ft W. of the station, at a road crossing; 27 ft N. of the center of the track, 27 ft W. of the center of the road; 2 ft S. and 3 ft W. of a right-of-way fence corner; 1 ft lower than the track. A standard USCGS disk, stamped "D 121 1935" and set in the top of a concrete post 837.846
- 25 1.3 UE D 121 A; about 1.2 mi N. along a gravel read from tablet; 15 ft E. and on N. end of E. concrete abutment of bridge over drain; a chiseled square, painted "UE 770.5" Drain 10.5 ft lower 770.49
- 26 2.2 UE D 121 B; about 2.2 mi N. along a gravel read from disk; in center of large wooden deck bridge over Fox River; a rail spike driven flush vertically; painted "UE CL 740.9" Water 22 ft lower 740.87
- 27 3.3 Reference mark; 70 ft SE. of tablet; 11 ft S. and 30 ft E. of road at field entrance E.-W.; on S. end of 18-in. concrete tube culvert; a chiseled square, painted "RM" 827.56
- 27 3.3 Pulaski, about 3.0 mi N. of; T. 69 N., R. 12 W.; near approximate cor. secs. 29, 30, 31 and 32; 13 ft N. and 38 ft W. of N.-S. road at E.-W. field entrances, 3 ft E. of W. right-of-way fence; 3 ft E.-NE. of a standard witness post, in concrete post; a standard tablet stamped "28 RGW 1966", set flush; painted "EM 830.0" 829.966
- 28 3.6 UE Centerline 28 RGW B; 0.5 mi N. along a gravel read from tablet; in center of County Hwy. "M"; painted "UE Centerline 801.5" 801.46

CANTRIL QUAD., 7 Iowa  
326 Missouri

- 29 4.6 UE 17 A; 2.75 mi W. along gravel read from crossroads at Troy; T. 69 N., R. 12 W.; near quarter cor. secs. 28 and 29; 32.4 ft N. and 1.3 ft lower than center of T-rd. N.; in top of the E. end of a 26-in. circular metal culvert; a punched hole, painted "UE 818.9" 818.9

LINE 6

CHECK LINE NEAR CENTER OF NORTH PORTION OF QUADRANGLE (by R. G. Wood, 1966; Book CV 2050)

CANTRIL QUAD., 7 Iowa  
326 Mo.

- 3 33 0.0 Milton, 2.4 mi SE. along the C.B.&Q. RR. from the station at; Van Buren County, at pole 66-10; at a road crossing; 52 ft SE. of the center of the road; 9 ft SE. and 5 ft NE. of a right-of-way fence corner and about 2 ft lower than the track; a standard USCGS disk stamped "H 121 1935" and set in the top of a concrete post. 795.064
- 33 1.5 UE Centerline; about 1.5 mi E. along State Hwy. 2 from disk; in center of Hwy. at a N.-S. gravel crossing 787.9
- 34 1.9 Cantril, 1.1 mi W. along the C.B.&Q. RR. from the station at; Van Buren County; midway between pole 64-15 and 64-16; 45 ft N. of the center of the track, 18 ft S. of the center of State Hwy. 2; at a 2 by 2 ft concrete culvert under the hwy., in the top of the E. end of the S. headwall and about 5 ft lower than the track; a standard USCGS disk stamped "J 121 1935" 782.101

LINE 7

Feet

EAST ALONG NORTH BORDER THENCE NORTH (by P. D. Ragan, 1964; Book CV 1702)

CANTRIL QUAD., 7 Iowa

- 1.0 UE 17 A; 2.75 mi W. along gravel read from crossroads; at Trey; T. 69 N., R. 12 W., near quarter cor. between secs. 28 and 29; 32.4 ft E., 35.2 ft N. and 1.3 ft lower than center of T-rd. N.; in top of the E. end of a 26-in. circular metal culvert; punched hole; painted "UE 818.9" 818.9
- 2.0 UE 17 B; 1.73 mi W. along gravel read from crossroads at Trey; T. 69 N., R. 12 W.; about 300 ft E. of quarter cor. between secs. 27 and 28; 24.5 ft N., 17.7 ft W. and 2.3 ft lower than center of E.-W. read at private driveway N. to white house with blue roof, in top of the W. end of an 18-in. circular metal culvert; punched hole, painted "UE 804.6" 804.6
- 3.1 Trey, 0.66 mi W. along gravel read from crossroads at; T. 69 N., R. 12 W.; about 0.1 mi E. of quarter cor. between secs. 26 and 27; about 250 ft SE. of SE. corner of white two-story house with green roof; 136.5 ft SW. of center of E.-W. read at field entrance S.; 120 ft SE. of center of E.-W. read at private drive N. to residence; 39.7 ft S. and 10.4 ft lower than center of read at culvert; in the E. end of the S. concrete headwall of a 4 x 5 ft concrete box culvert; standard tablet stamped "17 FDR 1964 763" painted "BM 763.4" 763.448
- 3.1 Reference mark; 257.7 ft NE. of tablet; 43.3 ft N. and 8.3 ft W. of center of E.-W. read at field entrance N. to Pond; 27 ft SW. of pond in top of the SW. end of a 36-in. circular culvert concrete; chiseled square; painted "RM 777.1" 777.07
- 3.7 UE 17 C; 0.60 mi E. along gravel read from tablet; T. 69 N., R. 12 W.; near center of E $\frac{1}{2}$  sec. 26; 34.3 ft E., 39.6 ft N. and 1.1 ft higher than center of crossroads at Trey; in the E. end of the bottom one of three concrete steps leading to SW. entrance to the I.O.F.O. Ledge Building; chiseled square; painted "UE 802.2" 802.22
- 4.4 UE 17 D; 1.4 mi E. along gravel read from tablet; 0.7 mi E. of crossroads; at Trey; T. 69 N., R. 12 W.; near center of sec. 25; 203.2 ft W. and 1.0 ft lower than center of T-rd. S.; 23 ft S. and 8.7 ft E. of center of E.-W. read at field entrance S. and private drive N. to S. C. Rogers residence, in top of the E. end of a 15-in. circular concrete culvert; chiseled square, painted "UE 809.5" 809.53
- 5.5 UE 17 E; 2.4 mi E. along gravel read from tablet; 1.7 mi E. of crossroads at Trey; T. 69 N., R. 11 W.; near center of sec. 30; 135.3 ft SW. and 7.6 ft lower than center of T-rd. S.; 0.7 ft above ground, in the N. side of a 24-in. oak tree; head of rail spike; painted "UE 781.8" 781.84

ELDON QUAD., 28

- 6.0 Trey, 2.2 mi E. along gravel read from crossroads at; T. 69 N., R. 11 W.; near quarter cor. between secs. 29 and 30; 89.2 ft SE. and 2.4 ft higher than center of read in bend at field entrance SE.; 38.6 ft SW. of wooden gate; 8.5 ft SW. of powerline pole; 2.4 ft NW. of right-of-way fence corner; in concrete post; projecting 3-in.; standard tablet stamped "18 FDR 1964 806"; painted "BM 806.2" 806.233
- 6.0 Reference mark; 494.7 ft NE. of tablet; 19.5 ft SE. and 2.8 ft lower than center of NE.-SW. read at culvert; in top of the SE. end of a 24-in. circular culvert; punched hole; painted "RM 799.3" 799.31

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Cantril Quadrangle  
7 Iowa, 326 Missouri

| <u>Line 7 Cont'd.</u>                                                                                                                                                                                                                                                                | <u>ELDON QUAD., 28</u> | <u>Feet</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------|
| 6.8 UE 18 A; 0.74 mi NE. along gravel road from tablet; T. 69 N., R. 11 W.; near center of S $\frac{1}{2}$ sec. 20; 14.1 ft NW. and 3.7 ft lower than center of road in bend at culvert; in top of the NW. end of a 24-in. circular metal culvert; punched hole, painted 'UE 778.0'  |                        | 778.0       |
| 7.6 UE 18 B; 1.65 mi NE. along gravel road from tablet; T. 69 N., R. 11 W.; in NE $\frac{1}{4}$ sec. 20; 80 ft SW., 11.5 ft NW. and 2.6 ft higher than center of concrete bridge over Chequest Creek; in top of the W. concrete bridge banister; chiseled square; painted 'UE 668.3' |                        | 668.27      |
| 8.2 UE 18 C; 2.2 mi NE. along gravel road from tablet; T. 69 N., R. 11 W.; in NW $\frac{1}{4}$ sec. 21; 16.8 ft S., 22.0 ft E. and 1.4 ft lower than center of T-rd. SW.; in top of the S. end of a 36-in. circular metal culvert; punched hole; painted 'UE 680.8'                  |                        | 680.8       |

LINE 8

WEST ALONG EAST PORTION OF NORTH BORDER (by F. D. Ragan, 1964; Book CV 1702)

|                                                                                                                                                                                                                                                                                                                                                                                                          | <u>ELDON QUAD., 28</u> |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|
| 1.1 UE 6 B; 0.7 mi S. and 1.0 mi W. along gravel road from tablet; T. 69 N., R. 10 W.; near center of sec. 21; 80 ft W. and 13.6 ft W. and 1.9 ft higher than center of concrete bridge over Chequest Creek, in the N. end of the E. concrete bridge banister; chiseled square; painted 'UE 613.0'                                                                                                       |                        | 613.02  |
| 1.6 UE 6 C; about 1.5 mi (airline) SW. of tablet; T. 69 N., R. 10 W.; at quarter cor. between secs. 21 and 28; 56.5 ft W., 16.8 ft N. and 2.7 ft lower than center of T-rd. N.; 0.3 ft above ground, in the NNW. side of a 39-in. forked elm tree; head of rail spike; painted 'UE 662.1'                                                                                                                |                        | 662.10  |
| 2.8 Reference mark; 210.2 ft S. of tablet; 150 ft E. and 21.2 ft N. of center of T-rd. E., 4.5 ft S. of E.-W. right-of-way fence line; 1.0 ft above ground, in the NE. side of an 8-in. elm tree; head of rail spike; painted 'RM 745.1'                                                                                                                                                                 |                        | 745.11  |
| 2.8 Douds, 5.6 mi S. and 2.9 mi E. of concrete bridge over Des Moines River at; T. 69 N., R. 10 W.; about 500 ft S. of quarter cor. between secs. 20 and 29; 193.3 ft N., 65.4 ft E. and 8.8 ft higher than center of T-rd. E.; 18.8 ft SE. of hickory tree; 2.8 ft W. of N.-S. right-of-way fence line; in concrete post projecting 5-in.; standard tablet stamped "22 FDR 1964 753" painted 'BM 752.6' |                        | 752.622 |
| 3.5 UE 22 A; 0.7 mi NW. along gravel road from tablet; T. 69 N., R. 10 W.; in SW $\frac{1}{4}$ sec. 20; 22.5 ft SE., 11.4 ft SW. and 0.7 ft higher than center of NW.-SE. road at concrete bridge over creek; in the SE. end of the SW. concrete bridge curb; chiseled square; painted 'UE 637.1'                                                                                                        |                        | 637.12  |
| 4.1 UE 22 B; 1.35 mi NW. along gravel road from tablet; T. 69 N., R. 10 W.; near center of sec. 19; about 430 ft W. of dim T-rd. N.; 63.7 ft W., 37.2 ft S. and 4.3 ft lower than center of E.-W. road at field road NW.; 54.2 ft W. of NW. corner of abandoned farmhouse; 1.1 ft above ground, in the NE. side of a 17-in. elm tree; head of rail spike; painted 'UE 688.9'                             |                        | 688.92  |
| 5.1 UE 22 C; 2.4 mi WNW. along gravel road from tablet; T. 69 N., R. 11 W.; about 0.2 mi S. of center of sec. 24; 27.4 ft NNW. and 2.4 ft lower than center of T-rd. S.; 14 ft NE. of center of field entrance, in top of the NE. end of a 15-in. circular metal culvert; punched hole; painted 'UE 776.0'                                                                                               |                        | 776.0   |

| <u>Line 8 Cont'd.</u>                                                                                                                                                                                                                                                                                                                                                                                      | <u>ELDON QUAD., 28</u> | <u>Feet</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------|
| 6.0 Reference mark; 220.5 ft E. of tablet; 101.5 ft E. and 56 ft N. of center of T-rd. E.; 3.7 ft N. of E.-W. right-of-way fence line; 0.2 ft above ground, in the N. side of a powerline pole; head of rail spike; painted "RM 745.2"                                                                                                                                                                     |                        | 745.15      |
| 6.0 Douds, 5.3 mi S. and 0.1 mi E. of concrete bridge over Des Moines River at; T. 69 N., R. 11 W.; in SE $\frac{1}{4}$ sec. 23; 95.1 ft NW., 77.6 ft SW. and 4.9 ft lower than center of T-rd. E.; 43.7 ft W. of SE. fence corner; 1 ft N. of E.-W. property line fence; onland owned by Charlie Witt; in concrete post; projecting 1 inch; standard tablet stamped "23 FDR 1964 747"; painted "RM 746.5" |                        | 746.472     |
| 7.2 UE 23 A; about 0.7 mi (airline) SW. of tablet; T. 69 N., R. 11 W.; at cor. secs. 22, 23, 26 and 27; 48.6 ft NE., 19.6 ft SE. and 0.1 ft higher than center of T-rd. NE.; in top of the SE. end of a 15-in. circular metal culvert; punched hole; painted "UE 664.3"                                                                                                                                    |                        | 664.3       |
| 8.0 Reference mark; 472.3 ft S. of tablet; 53.6 ft E., 17.9 ft S. and 1.5 ft lower than center of T-rd. SE.; in the center of S. concrete headwall of 6 x 6.5 ft box culvert; chiseled square; painted "RM 646.6"                                                                                                                                                                                          |                        | 646.59      |
| 8.0 Douds, 5.3 mi S. and 1.3 mi W. of concrete bridge over Des Moines River at; T. 69 N., R. 11 W.; in SW $\frac{1}{4}$ sec. 22; 454 ft N. of T-rd. SE.; 71 ft N., 11.8 ft W. and 2.2 ft higher than center of concrete bridge over Chequest Creek; in top of the N. end of the W. concrete bridge banister; standard tablet stamped "24 FDR 1964 655" painted "655.3"                                     |                        | 655.231     |
| 8.6 UE 24 A; 0.5 mi N. and W. along gravel road from tablet; T. 69 N., R. 11 W.; at quarter cor. between secs. 21 and 22; 90.5 ft NE. and 1.6 ft lower than center of T-rd. N.; 0.1 ft above ground; in the N. side of powerline pole; head of rail spike; painted "UE 666.0"                                                                                                                              |                        | 665.96      |
| 9.6 UE 18 C (described in line 7)                                                                                                                                                                                                                                                                                                                                                                          |                        | 680.8       |

ISOLATED BENCH MARK - - Not shown on diagram

|                                                                                                                                             |         |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------|
| T. 66 N., R. 10 W.; 0.1 mi E. of NW. cor. of; in fence corner on property of Joseph Miller; iron post stamped "745 A" (not found 1939; OGJ) | 746.450 |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------|