

THIRD ORDER LEVELS  
SEA LEVEL DATUM OF 1929

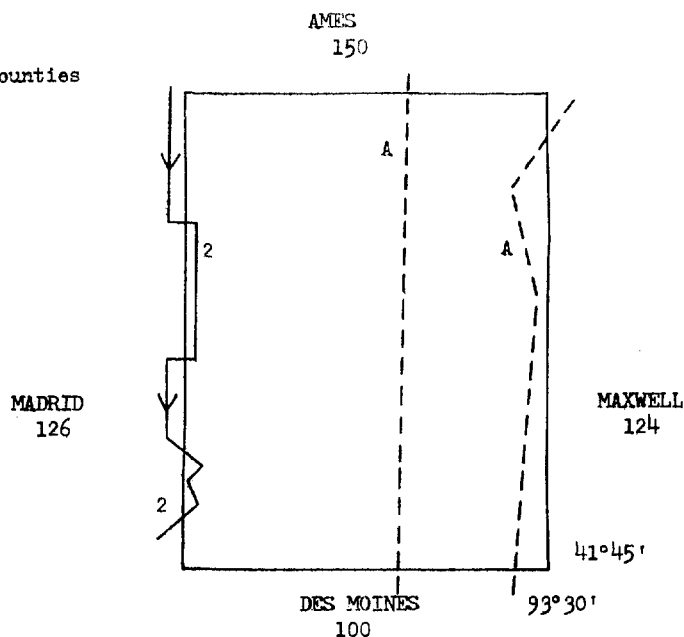
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SLATER QUADRANGLE  
125 - IOWA  
N4145-W9330/15  
DIAGRAM NK 15-8  
DES MOINES, IOWA

Polk, Story and Boone Counties

Edition of 1/21/65

PR: MCGvdc



USC&GS LEVELING  
A. No. 410934

LINE 1

Feet

ISOLATED BENCH MARKS NOT SHOWN ON DIAGRAM

|                                                                                                                                        |         |
|----------------------------------------------------------------------------------------------------------------------------------------|---------|
| T. 80 N., R. 24 W., NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, 150 ft W. of rd. fork; Corydon Bridge; iron post stamped "850 ADJ 1903" | 849.0   |
| Polk City, in NW. corner of front face of Polk City Savings Bank; aluminum tablet stamped "890"                                        | 888.8   |
| T. 81 N., R. 25 W., NE. cor. sec. 23, iron post stamped "956" (RESET: 14 ft W. of previous location, 1948)                             | 954.557 |
| T. 82 N., R. 25 W., SE. cor. sec. 35, iron post stamped "1008"                                                                         | 1007.3  |
| T. 82 N., R. 25 W., SE. cor. sec. 14, iron post stamped "1049"                                                                         | 1048.0  |
| T. 82 N., R. 25 W., NW. cor. sec. 1, iron post stamped "1046"                                                                          | 1044.4  |
| T. 83 N., R. 24 W., SE. cor. sec. 30, iron post stamped "1032"                                                                         | 1030.7  |
| T. 83 N., R. 24 W., center of sec. 27, at NW. corner of crossroads; iron post stamped "987"                                            | 986.4   |
| T. 83 N., R. 23 W., 0.25 mi E. of W. end of S. border of sec. 19; iron post stamped "870"                                              | 869.4   |
| T. 83 N., R. 23 W., NE. cor. of NW $\frac{1}{4}$ sec. 27, iron post stamped "958"                                                      | 957.5   |
| T. 82 N., R. 23 W., NE. cor. of NW $\frac{1}{4}$ sec. 10, iron post stamped "942"                                                      | 941.2   |
| Cambridge, in front face of Citizens State Bank; aluminum tablet stamped "872" (USC&GS elev.)                                          | 870.579 |
| Cambridge, in front of station; top of rail                                                                                            | 861.8   |

125C

2  
SLATER QUADRANGLE  
125 - IOWA

| <u>LINE 1 (Cont'd)</u>                                                                                                        | <u>Feet</u> |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|
| T. 81 N., R. 23 W., NW. cor. of NE $\frac{1}{4}$ sec. 9, iron post stamped "910" USC&GS elev.                                 | 908.965     |
| T. 81 N., R. 23 W., NW. cor. sec. 28, iron post stamped "986"                                                                 | 984.5       |
| T. 80 N., R. 23 W., NE. cor. sec. 6,; iron post stamped "959"                                                                 | 958.5       |
| T. 81 N., R. 24 W., SW. cor. sec. 35; iron post stamped "979"                                                                 | 977.7       |
| T. 80 N., R. 24 W., NE. cor. sec. 6, iron post stamped "977"                                                                  | 976.0       |
| T. 82 N., R. 24 W., SW. cor. of SE $\frac{1}{4}$ sec. 2, iron post stamped "979"                                              | 977.7       |
| Huxley, near center of N. side of sec. 26, T. 82 N., R. 24 W., 50 ft W. of electric railway station; iron post stamped "1040" | 1038.8      |
| T. 81 N., R. 24 W., SW. cor. sec. 2, iron post stamped "1010"                                                                 | 1009.1      |
| T. 81 N., R. 24 W., NE. cor. sec. 21, iron post stamped "1007"                                                                | 1005.8      |

LINE 2

SOUTH ALONG WEST BORDER (W.K. Mc Curley, 1964; CV 1736)

BOONE QUAD. - 151

|          |                                                                                                                                                                                                                                                                                                                        |          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 3 49 3.4 | Luther, 2.3 mi N., 3.0 mi E. of; T. 83 N., R. 25 W., near S. $\frac{1}{2}$ sixteenth cor. between secs. 15 and 16, 700 ft S. of private driveway E.; in top of and in center of E. concrete headwall and 0.7 ft higher than center of rd. at culvert; a standard tablet stamped "20 WMC 1964 1059" painted "BM 1058.9" | 1058.936 |
| 50 3.4   | Reference mark, 140 ft S. of tablet; on N. end of steel corrugated culvert under field entrance E.; a painted square; painted "RM"                                                                                                                                                                                     | 1057.04  |
|          | <u>MADRID QUAD. - 126</u>                                                                                                                                                                                                                                                                                              |          |
| 3.7      | UE 20 WMC A, 0.3 mi S. of tablet; T. 83 N., R. 25 W., cor. secs. 15, 16, 21 and 22; 25 ft N., 30 ft W. of and 2.4 ft lower than crossroads; on top of concrete culvert; a chiseled square; painted "UE 1061.5"                                                                                                         | 1061.49  |
| 51 4.7   | UE 20 WMC B, 1.32 mi S. of tablet; T. 83 N., R. 25 W., cor. secs. 21, 22, 27 and 28; 17 ft S., 54 ft W. of and 2.4 ft lower than crossroads; on top of steel corrugated culvert; a painted square; painted "UE 1062.8"                                                                                                 | 1062.8   |
| 52 5.8   | UE 20 WMC C, 2.36 mi S. of tablet; T. 83 N., R. 25 W., cor. secs. 27, 28, 33 and 34; 232 ft S., 17 ft W. of and 4.1 ft lower than center of crossroads; on top of steel corrugated culvert; a painted square; painted "UE 1049.5"                                                                                      | 1049.5   |
| 53 6.3   | Luther, 0.6 mi S., 3.0 mi E. of; T. 83 N., R. 25 W., near quarter cor. between secs. 33 and 34; at small drain; on top of and in center of E. concrete headwall 1.6 ft lower than center of rd. at culvert; a standard tablet stamped "21 WMC 1964 1036" painted "BM 1036.1"                                           | 1036.137 |
| 54 6.3   | Reference mark, 465 ft S. of tablet; on E. end of steel corrugated culvert; a painted square; painted "RM"                                                                                                                                                                                                             | 1032.96  |
| 6.7      | UE 21 WMC A, 0.4 mi S. of tablet; Tps. 82 and 83 N., R. 25 W., cor. secs. 3, 4, 33 and 34; 31 ft N., 23 ft W. of and 4.7 ft lower than crossroads; on top of steel corrugated pipe culvert; a painted square; painted "UE 1037.1"                                                                                      | 1037.1   |
| 56 8.0   | UE, 21 WMC B, 1.4 mi S. thence 0.2 mi W. of tablet; T. 82 N., R. 25 W., near E. sixteenth cor. between secs. 4 and 9, at bridge over Big Creek; 10 ft S. of center of bridge on floor of bridge; a chiseled square; painted "UE 1016.2"                                                                                | 1016.14  |
| 57 8.2   | UE 21 WMC C, 1.4 mi S. thence 0.5 mi W. of tablet; T. 82 N., R. 25 W., near quarter cor. between secs. 4 and 9, at SE. corner of front steps of Garden Prairie Congregational Church; and 3.9 ft higher than T-rd. S.; a chiseled square; painted "UE 1056.0"                                                          | 1055.95  |

| <u>LINE 2 (Cont'd)</u>                                                                                                                                                                                                                                                                                                | <u>MADRID QUAD. - 126</u> | <u>Feet</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|
| 3 58 9.2 UE 21 WMC D, 1.4 mi S. thence 0.5 mi W., thence 1.0 mi S. of tablet; T. 82 N., R. 25 W., quarter cor. between secs. 9 and 16; 28 ft N., 29 ft W. of and 2.5 ft lower than crossroads; on top of steel corrugated culvert; a painted square; painted "UE 1050.2"                                              |                           | 1050.18     |
| 59 9.8 Luther, 3.0 mi S. and 3.0 mi E. of; Madrid, 3.0 mi N. and 3.0 mi E. of; T. 82 N., R. 25 W., cor. secs. 9, 10, 15 and 16; at bridge over Big Creek; 7 ft W. of SE. corner of bridge and level with center of bridge; on outside curb of bridge a standard tablet stamped "22 WMC 1964 1006" painted "BM 1005.8" |                           | 1005.773    |
| 61 9.8 Reference mark, 395 ft E. of tablet; 25 ft S. of center of rd., on E. end of culvert; under drive to barn; a painted square; painted "RM"                                                                                                                                                                      |                           | 1013.66     |
| <u>SLATER QUAD. - 125</u>                                                                                                                                                                                                                                                                                             |                           |             |
| 61 10.3 UE 22 WMC A, 0.5 mi E. of tablet; T. 82 N., R. 25 W., quarter cor. between secs. 10 and 15, 37 ft S., 37 ft W. of and 0.9 ft lower than Trd. S.; in power pole a lag bolt; painted "UE 1047.0"                                                                                                                |                           | 1046.97     |
| 62 11.3 UE 22 WMC B, 0.5 mi E. thence 1.0 mi S. of tablet; T. 82 N., R. 25 W., quarter cor. between secs. 15 and 22, 22 ft N., 55 ft E. of and level with crossroads; on top of concrete culvert; a chiseled square; painted "UE 1026.9"                                                                              |                           | 1026.89     |
| 63 12.3 UE 22 WMC C, 0.5 mi E. thence 2.0 mi S. of tablet; T. 82 N., R. 25 W., quarter cor. between secs. 22 and 27; 31 ft S., 32 ft E. of and 0.6 ft higher than crossroads; in power pole; a lag bolt; painted "UE 1031.1"                                                                                          |                           | 1031.06     |
| 64 12.6 Madrid, 0.7 mi N., 3.5 mi E. of; T. 82 N., R. 25 W., near center of sec. 27; at small creek; in top of W. concrete headwall; 1.0 ft N. of S. end and 4.8 ft lower than center of rd. at culvert; standard tablet stamped "23 WMC 1964 988" painted "BM 988.4"                                                 |                           | 988.328     |
| 65 12.6 Reference mark, 38 ft E. of tablet; on top of and in center of E. concrete headwall of culvert; a chiseled square; painted "RM"                                                                                                                                                                               |                           | 988.40      |
| 13.3 UE 23 WMC A, 0.7 mi S. of tablet; T. 82 N., R. 25 W., quarter cor. between secs. 27 and 34; in center of Co. Hwy. "G" and N.-S. gravel rd., a copper nail and washer; painted "UE centerline 987.2"                                                                                                              |                           | 987.18      |
| 66 14.3 UE 23 WMC B, 1.7 mi S. of tablet; Tps. 81 and 82 N., R. 25 W., quarter cor. between secs. 3 and 34; 26 ft S., 21 ft W. of and 2.1 ft lower than T-rd. N.; on top of W. end of steel corrugated culvert at field entrance S.; a painted square; painted "UE 1007.7"                                            |                           | 1007.62     |
| <u>MADRID QUAD. - 126</u>                                                                                                                                                                                                                                                                                             |                           |             |
| 68 14.8 UE 23 WMC C, 1.7 mi S. thence 0.5 mi W. of tablet; Tps. 81 and 82 N., R. 25 W., cor. secs. 3, 4, 33 and 34; 61 ft S., 18 ft W. of and 1.0 ft lower than T-rd. S.; on top of steel corrugated culvert; a painted square; painted "UE 973.9"                                                                    |                           | 973.88      |
| 69 15.8 Madrid, 2.0 mi S. and 3.0 mi E. of; T. 81 N., R. 25 W., cor. secs. 3, 4, 9 and 10; 95 ft N., 33 ft W. of and 0.3 ft lower than crossroads; 1 ft E. of fence line; in top of concrete post; standard tablet stamped "27 WMC 1964 960" painted "BM 960.1"                                                       |                           | 960.029     |
| 70 15.8 Reference mark, 60 ft SE. of tablet; 50 ft N. and 16 ft E. of crossroads; on top of steel corrugated culvert; a painted square; painted "RM"                                                                                                                                                                  |                           | 960.03      |
| 16.8 UE 24 WMC A, 1.1 mi S. of tablet; T. 81 N., R. 25 W., near cor. secs. 9, 10, 15 and 16; at NW corner of bridge over Big Creek; on top of curb and 0.5 ft higher than center of bridge; a chiseled square; painted "UE 920.5"                                                                                     |                           | 920.5       |

| <u>LINE 2 (Cont'd)</u> |                                                                                                                                                                                                                                                                       | <u>MADRID QUAD. - 126</u> | <u>Feet</u> |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|
| 3 72 17.3              | UE 24 WMC B, 1.5 mi S. of tablet; T. 81 N., R. 25 W., quarter cor. between secs. 15 and 16, 15 ft S., 24 ft W. of and 0.7 ft lower than T-rd. W.; on top of steel corrugated culvert; a painted square; painted "UE 949.5"                                            |                           | 949.44      |
| 73 17.8                | UE 24 WMC C, 2.0 mi S. of tablet; T. 81 N., R. 25 W., near cor. secs. 15, 16, 21 and 22; on top of and in center of W. concrete curb of concrete bridge; 0.5 ft higher than center of bridge; a chiseled square; painted "UE 913.9"                                   |                           | 913.91      |
| 74 18.3                | UE 24 WMC D, 2.5 mi S. of tablet; T. 81 N., R. 25 W., quarter cor. between secs. 21 and 22; 27 ft N., 30 ft E. of and 2.3 ft lower than Trd. E.; in power pole; a lag bolt; painted "UE 972.0"                                                                        |                           | 971.96      |
| 75 18.9                | Polk City, 2.4 mi N., 2.2 mi W. of; T. 81 N., R. 25 W., near cor. secs. 21, 22, 27 and 28, 128 ft N., 33 ft E. of and 3.9 ft higher than T-rd. N.; 1.0 ft W. of a fence line; in top of concrete post; a standard tablet stamped "25 WMC 1964 969" painted "BM 969.4" |                           | 969.338     |
| 76 18.9                | Reference mark, 130 ft S. of thence 695 ft SE. along State Hwy. 415; 18 ft NE. of center of rd. on concrete casement for drain intake; chiseled square painted "RM"                                                                                                   |                           | 962.10      |

SLATER QUAD. - 125

|         |                                                                                                                                                                                                                                                                                                 |  |         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|
| 19.6    | UE 25 WMC A, 0.6 mi SE. of tablet; T. 81 N., R. 25 W., near center of sec. 27, in center of State Hwy. 145 at T-rd. N.; a copper nail and washer; painted "UE centerline 977.0"                                                                                                                 |  | 976.96  |
| 77 20.6 | UE 25 WMC B, 1.6 mi SE. of tablet; T. 81 N., R. 25 W., in NW $\frac{1}{4}$ sec. 35, 24 ft S., 15 ft W. of and level with T-rd. W.; in power pole; a lag bolt; painted "UE 973.3"                                                                                                                |  | 973.29  |
| 78 21.7 | Polk City, 1.4 mi N., 2.0 mi W. of; T. 81 N., R. 25 W., near W. sixteenth cor. between secs. 27 and 34, 31 ft N., 55 ft E. of and 1.9 ft higher than T-drive N., on crest of hill in top of concrete post; standard tablet stamped "26 WMC 1964 930" painted "BM 929.6"                         |  | 929.583 |
| 79 22.3 | Reference mark, 120 ft W. of tablet; 31 ft N. of center of rd. in power pole with transformer; a lag bolt; painted "RM"                                                                                                                                                                         |  | 927.38  |
| 80 22.8 | UE 26 WMC A, 1.1 mi SE. of tablet; T. 81 N., R. 25 W., about 0.2 mi N. of quarter cor. between secs. 3 and 34; 345 ft N., 25 ft E. of and 4.4 ft higher than T-rd. N.; and NE., 9 ft N., 25 ft E. of private drive E.; on top of steel corrugated culvert; a painted square; painted "UE 846.8" |  | 846.78  |

MADRID QUAD. - 126

|          |                                                                                                                                                                                                                                                        |  |         |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|
| 4 1 23.8 | UE 26 WMC B, 1.1 mi SE. thence 1.0 mi W. of tablet; T. 81 N., R. 25 W., in SE $\frac{1}{4}$ sec. 33, at NE. corner of bridge over Des Moines River; 2.3 ft lower than center of bridge; on top of concrete curb; a chiseled square; painted "UE 835.7" |  | 835.61  |
| 2 24.5   | Reference mark, 250 ft N. of tablet; 153 ft N., 37 ft W. of T-rd. S.; on top of concrete base of water faucet; a chiseled square; painted "RM"                                                                                                         |  | 934.01  |
| 24.5     | Polk City, 0.4 mi N., 4.2 mi W. of; T. 81 N., R. 25 W., near SW. cor. of sec. 33 76 ft S., 38 ft W. of and 1.2 ft higher than T-rd. S.; in top of concrete post; standard tablet stamped "27 WMC 1964 942" painted "BM 941.6"                          |  | 941.592 |