

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

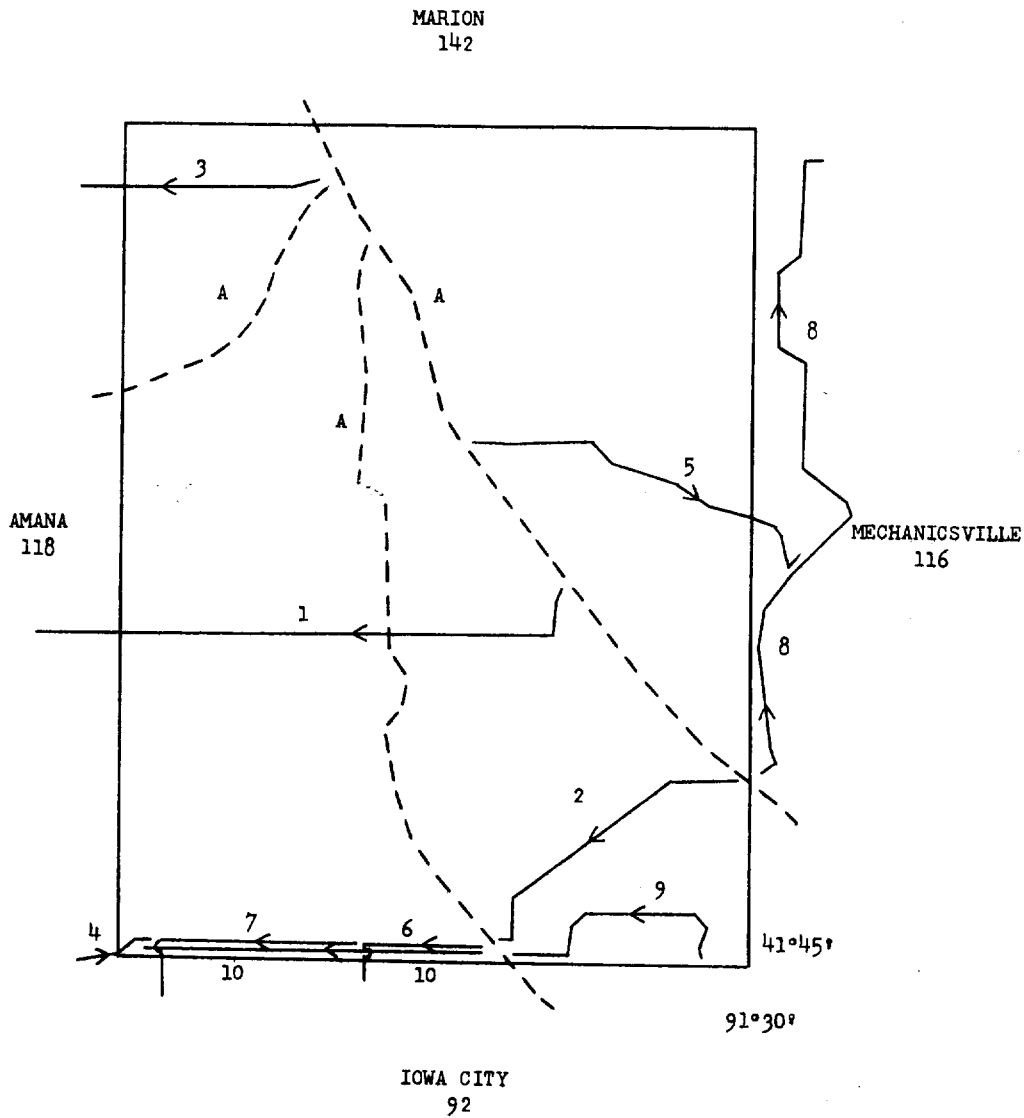
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CEDAR RAPIDS QUADRANGLE
117 - Iowa
N4145-W9130/15
Diagram NK 15-9
Davenport, Iowa-Ill.

Johnson and Linn Counties

Edition of 10/12/66

PR: ADP/ot



USC&GS LEVELING

A. No. 410914

117 D

LINE 1

Feet

WEST IN SOUTH HALF OF QUAD (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

- 1 1 0.0 At Ely, at the Chicago, Rock Island and Pacific RR. station, at a semaphore signal, in the top of the E. cor. of the concrete foundation, 18 ft SW. of the center of the track, and level with the track; a USC&GS standard disk stamped "H 76 1934" 736.734
- 1.4 UE H A, 1.4 mi SE. along "R" from the disk, at the cor. of secs. 5, 6, 31 and 32, Tps. 82 and 83 N., R. 6 W., at the center of the wooden bridge; a rail spike painted "UE H A 715.3" 715.32
- 2 2.3 UE H B, 1.3 mi SE. along the State Rd. "H", thence 0.9 mi S. along the county dirt and gravel rd., at the cor. of secs. 5, 6, 7 and 8, T. 81 N., R. 6 W.; 36 ft N., 18 ft W. and 0.6 ft lower than the center of the crossroads, on top of the W. end of a concrete box culvert; a chiseled square, painted "UE H B 779.6" 779.63
- 3 3.2 Reference mark, 180 ft E. of the tablet, 30 ft S. and 8 ft E. of the center of county Hwy. #1 and the private drive S., on top of the E. end of a round metal culvert; a punched hole painted "RM" 811.48
- 4 3.2 Shueyville, 2.5 mi E. of, 0.1 mi E. of the cor. of secs. 1, 6, 7 and 12, T. 81 N., Rs. 6 and 7 W., 47 ft S., 24 ft E. and 2.2 ft higher than the center of the T-drive S. and Co. Hwy. 1, 7 ft E. of the fence cor., 2 ft N. of the S. right-of-way fence; 1 ft N. of the witness post, on the top of a concrete post; a standard tablet stamped "1 DDB 1966 817" 816.978
- 5 3.9 About 0.3 mi E. along county Hwy. 1 at the cor. of secs. 1, 2, 11 and 12, T. 81 N., R. 7 W., 38 ft N. and 501 ft E. of a T-rd. S., 8 ft S. of the N. right-of-way fence; 2 ft E. of the T-fence N., in top of a concrete post; a standard disk (USC&GS) stamped "52 Station #623" Description and elevation by USGS 854.562
- 6 4.3 UE 1 A, 1.0 mi W. along County Rd. #1 from the tablet, at the cor. of secs. 1, 2, 11 and 12, T. 81 N., R. 7 W., 34 ft N., 47 ft W. and 9.5 ft lower than the center of the T-rd. N., on the top of the N. head-wall of the concrete box culvert; an iron rod projecting 0.1 ft, painted "UE 1 A" 796.47
- 8 5.8 At Shueyville, on U.S. Hwy. 218, at pavement station 786, at a 10 ft concrete bridge, in the center of the top of the handrail, and 14 ft E. of the center of the Hwy., a monometal (monel-metal) rivet Designation 26 (I.H.C.) Description by USC&GS. Elevation by USGS 791.457
- 9 6.4 UE Centerline, 0.5 mi W. along County Rd. I from the small settlement known as Shueyville, at the cor. of secs. 3, 4, 9 and 10, T. 81 N., R. 7 W., in the center of Hwy. I at the T-rd. S., a silver screw and washer, painted "UE CL 825.9" 825.96
- 11 7.5 UE 26 A, 580 ft W. of the junction of State Hwy. 218 at county rd. "I", near the cor. of secs. 4, 5, 8 and 9, T. 81 N., R. 7 W., 252 ft W. of the entrance to the Anderson Cemetery, 19 ft N. and 1.4 ft lower than the center of the small concrete and metal bridge, on top of the NW. abutment; a chiseled square, painted "UE 26 A 762.9" 762.93
- 12 8.4 Swisher, in the town of, near the cor. of secs. 5, 6, 7 and 8, T. 81 N., R. 7 W., 55 ft S., 37 ft W. and 0.8 ft lower than the center of the T-rd. S., in the NE. cor. of the Swisher Schoolyard, 39 ft NNE. of the school entrance, on the NE. cor. of a concrete block; a standard tablet stamped "2 DDB 1966 793" 792.630

LINE 1 (Cont'd)

CEDAR RAPIDS QUAD. 117

Feet

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| 1 13 8.7 | UE Centerline, 0.3 mi W. along the blacktop rd. from the tablet, in the center of the crossroads, a rail spike, painted "UE CL 793.4" | 793.43 |
| 14 9.2 | UE Centerline B, 0.8 mi W. along the blacktop rd. from the tablet, at the W. sixteenth cor. between secs. 6 and 7, T. 81 N., R. 7 W., at the center of the T-rd. S., a silver bolt and washer, painted "UE CL B 804.0" | 804.04 |
| 15 9.7 | UE 2 B, 1.3 mi W. along the blacktop rd. from the tablet, at the E. sixteenth cor. between secs. 1 and 12, T. 81 N., R. 8 W., 33 ft S., 20 ft W. and 2.7 ft lower than the center of the crossroads, on top of the W. end of the round metal culvert; a punched hole, painted "UE 2 B 774.4" | 774.43 |
| 16 10.4 | UE Centerline C, 2.1 mi W. along the blacktop rd. from the tablet, at the cor. of secs. 1, 2, 11 and 12, T. 81 N., R. 7 W., at the center of the T-rd. S., a silver bolt and washer, painted "UE CL C 781.8" | 781.81 |
| 17 10.9 | Swisher, 2.6 mi W. along the blacktop rd. from, near the quarter cor. between secs. 2 and 11, T. 80 N., R. 8 W., 39 ft N., 48 ft E. and 4.6 ft lower than the center of the T-rd. N., 14 ft E. of the cor. fence post, 2 ft S. of the N. right-of-way fence; on top of a concrete post; a standard tablet stamped "3 DDB 1966 813" painted "BM 813.4" | 813.419 |
| 18 11.0 | Reference mark, 80 ft SSW. of the tablet, 30 ft S. and 2 ft E. of the center of the T-rd. N., on top of the E. end of the round metal culvert; a punched hole | 815.18 |

AMANA QUAD. 118

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| 19 12.0 | UE 3 A, 1.0 mi W. along County Rd. 51 from the tablet, near the quarter cor. between secs. 3 and 10, T. 81 N., R. 8 W., 25 ft S., 21 ft W. and 4.9 ft lower than the center of the crossroads, on the top of the W. end of the round metal culvert; a punched hole, painted "UE 3 A 834.4" | 834.43 |
| 20 13.0 | UE 3 B, 2.1 mi W. along County Rd. 51 from the tablet, near the quarter cor. between secs. 7 and 9, T. 81 N., R. 8 W., 25 ft N., 2 ft W. and 2.5 ft lower than the center of the T-rd. S., on top of the W. end of the round metal culvert; a punched mark, painted "UE 3 B 789.3" | 789.32 |
| 21 13.5 | Swisher, 5.1 mi W. along County Rd. 51, from, near the cor. of secs. 4, 5, 8 and 9, T. 81 N., R. 8 W., 30 ft S., 1 ft W. and 1.3 ft lower than the center of the T-rd. N., 8 ft E. of the T-fence S., 3 ft N. of the S. right-of-way fence, on the top of a concrete post; a standard tablet stamped "4 DDB 1966 759" painted "BM 758.6" | 758.615 |

LINE 2

SOUTHWEST IN SOUTHEAST CORNER OF QUAD. (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

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| 1 29 0.0 | At Solon, opposite the Chicago, Rock Island and Pacific RR., 10 poles NW. of milepost 82, at a semaphore signal, and in the top of the SW. cor. of the concrete foundation; a USCAQS standard disk stamped "M 76 1934" | 791.898 |
| 0.5 | UE Centerline, 0.3 mi N. thence 0.2 mi W. of the RR. station at Solon, at the cor. of secs. 23, 24, 25 and 26, T. 81 N., R. 6 W., at the center of the T-rd. S., a rail spike, painted "UE CL 755.3" | 755.29 |

CEDAR RAPIDS QUADRANGLE
117 - IowaLINE 2 (Cont'd)CEDAR RAPIDS QUAD. 117Feet

- 1 30 1.5 UE M A, 1.5 mi W. along the blacktop rd. from the disk, near the cor. of secs. 22, 23, 26 and 27, T. 81 N., R. 6 W., 15 ft N., 148 ft E., and 4.5 ft lower than the center of the T-rd. SE., on top of the N. end of the round metal culvert; a punched hole, painted "UE M A 751.7" 751.68
- 31 2.4 UE M B, 2.4 mi W. along the blacktop rd. from the disk, about 0.1 mi E. of the cor. of secs. 21, 22, 27 and 28, T. 81 N., R. 6 W., 82 ft S., 77 ft W. and 1.1 ft higher than the center of the Y-rd. SW., on the W. end and on top of a round metal culvert which is located at the entrance to a field, a punched hole, painted "UE M B 749.4" 749.47
- 32 3.3 Solon, 0.7 mi S. and 2.5 mi W. of, in the SE $\frac{1}{4}$ sec. 28, T. 81 N., R. 6 W., 39 ft S., 11 ft W. and 0.5 ft higher than the center of the concrete and iron bridge over the Southern branch of McBride Lake, on top of the W. abutment and at the S. end, a standard tablet stamped "5 DDB 1966 718" 718.540
- 33 3.3 Reference mark, 162 ft SW. of the tablet, 151 ft S., 70 ft W. of the center of the S. end of the bridge, on top of the N. end of the round metal culvert; a punched hole 715.62
- 34 3.6 UE Centerline, 0.3 mi S. of the tablet, at the center of the T-rd. E., a rail spike, painted "UE CL" 798.82
- 35 4.3 UE Centerline B, 1.0 mi S. along the blacktop rd. from the tablet, at the center of the Y-rds., a rail spike, painted "UE CL" 822.08
- 36 4.7 UE 5 A, 1.0 mi S. thence 0.4 mi SW. along the rd. from the tablet, in the SW $\frac{1}{4}$ sec. 33, T. 81 N., R. 6 W., about 30 ft W. and 15 ft lower than the center of the rd. leading to the bridge over McBride Lake, on top of the N. abutment of a concrete box culvert; a chiseled square painted "UE 5 A" 698.16
- 45 5.4 Reference mark, 110 ft SW. of the tablet, 14 ft N., 52 ft W. of a T-trail on the N. side maple tree, 2 ft in diameter, a rail spike 731.72
- 46 5.4 North Liberty, 2.9 mi NE. of, in the NE $\frac{1}{4}$ sec. 5, T. 80 N., R. 6 W., about 1000 ft SW. along the rd. from the SW. end of the bridge over McBride Lake, 92 ft N. and 23 ft E. of the center of a T-trail NW., 16 ft SW. of the most easterly maple tree, on top of a concrete post; a standard tablet, stamped "6 DDB 1966" 733.423
- 47 6.3 UE 6 A, 0.9 mi SW. along the rd. from the tablet, in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of sec. 5, T. 80 N., R. 6 W., 42 ft S., 11 ft E. and 1 ft lower than the center of the T-drive SE., on the SE. side of a power pole, a rail spike, painted "UE 6 A" 820.79
- 48 7.4 UE 6 B, 2.1 mi SW. along the rd. from the tablet, in the NW. cor. of sec. 7, T. 80 N., R. 6 W., 40 ft SE. and 2.7 ft lower than the center of the curve, on the SE. side of a power pole, a rail spike, painted "UE 6 B 787.6" 787.63
- 49 7.9 UE 6 C, 2.6 mi SW. along the dirt and gravel rd. from the tablet, near the quarter cor. between secs. 7 and 12, T. 80 N., Rs. 6 and 7 W., in the NW. cor. of the cross-roads and 1.9 ft lower than the centerline, on top of the N. end of a round concrete culvert, a chiseled square, painted "UE 6 C 779.3" 779.44
- 50 8.2 North Liberty, 0.5 mi NW. along U.S. Hwy. 218 from the intersection of Main St. at, at the N. edge of town, in the NE $\frac{1}{4}$ sec. 12, T. 80 N., R. 7 W., at pavement station 373+45, at a 24 in. tile culvert, in top of the NE. headwall, and 16 ft NE. of center of Hwy., a reinforcing bar. Designation 14 (I.H.C.) Description by USC&GS 772.594

Feet

LINE 3

WEST IN NORTHWEST CORNER OF QUAD. (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

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|---|-----|---------|---|---------|
| 1 | 52 | 0.0 | At Cedar Rapids, at the post office, 17 ft W. of the center of the S. entrance, in a limestone block of the basement retaining wall, and 4 ft S. of the building; a USC&GS standard disk stamped "C 76 1934" | 726.665 |
| | 1.3 | UE C A, | at the street crossings of East Ave. NW. and 13th St. NW., 20 ft N., 29 ft W. and 2.9 ft lower than the center of the street crossing, on top and on the N. end of the round concrete culvert; a chiseled square, painted "UE C A" | 733.68 |
| | 53 | 2.1 | UE Centerline, near the cor. of 24th St. NW. and East Ave. NW., at the center of the concrete bridge; painted "UE CL" | 763.0 |
| | 54 | 2.7 | Reference mark, 23 ft SSW. of the tablet, 24 ft N. of East Ave. NW., 22 ft E. of the steps leading to the Edgewood school No. 1; on top and on the E. end of a round concrete culvert; a chiseled square | 801.13 |
| | 55 | 2.7 | Cedar Rapids, about 0.3 mi N. thence about 2.4 mi W. along East Ave. NW. from the post office of, near the cor. of East Ave. NW. and Edgewood rd., 39 ft S. of the SE. cor. of the Edgewood School #1, 34 ft E. of the walk leading to the main entrance, 42 ft N. of East Ave. NW., 27 ft W. of a 3 ft in diameter oak tree, on top of a concrete post; a standard tablet stamped "7 DDB 1966" | 807.793 |
| | 57 | 3.8 | UE Centerline, 1.1 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 23, 24, 25 and 26, T. 83 N., R. 8 W., at the center of the street crossing, a chiseled square, painted "UE CL A 855.7" | 855.76 |
| | 58 | 4.7 | <u>AMANA QUAD. 118</u>
UE 7 B, 2.0 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 22, 23, 26 and 27, T. 83 N., R. 8 W., 30 ft S., 27 ft E. and 1.9 ft lower than the center of the crossroads, on top of the E. end of the round concrete culvert; a chiseled square, painted "UE 7 B 828.3" | 828.38 |
| | 59 | 5.7 | Reference mark, 31 ft E. of the tablet, 28 ft S. and 14 ft E. of the crossroads, on top of the E. abutment of the concrete box culvert; a chiseled square | 769.87 |
| | 60 | 5.8 | Cedar Rapids, 0.3 mi N. thence 5.4 mi W. along East Ave. NW. and County Rd. #72, which starts at the city limits going W. from the post office, near the cor. of secs. 21, 22, 27 and 28, T. 83 N., R. 8 W., 25 ft S., 15 ft W. and 1 ft lower than the center of the crossroads, on top of the W. abutment of a concrete box culvert; a standard tablet stamped "8 DDB 1966" | 769.888 |

LINE 4

WEST IN SOUTHWEST CORNER OF QUAD. (By C. D. Lien, 1966, Book CV-2044)

OXFORD QUAD. 93

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|---|----|-----|---|---------|
| 1 | 39 | 7.0 | T. 80 N., R. 8 W., near SW. cor. sec. 10, Homestead, 3.62 mi E. along Hwy. 6, thence 1.6 mi E. along rd., 49 ft S. of center of rd. at bend, 1 ft N. of right-of-way fence, a standard tablet in a concrete post stamped "4 CDL 1966" | 858.341 |
| | 40 | 7.1 | Reference mark, 0.04 mi E. along gravel rd. from tablet, 30 ft N. of center of rd., a rail spike in fence post | 853.73 |

CEDAR RAPIDS QUADRANGLE
117 - IowaLINE 4 (Cont'd)OXFORD QUAD. 93Feet

- 1 41 8.0 UE, T. 80 N., R. 8 W., near the S. sixteenth cor. between secs. 10 and 11, Homestead, 3.62 mi E. along Hwy. 6, thence 2.49 mi E. along rd., 0.9 mi W. from tablet, 20 ft S., 20 ft E. from T-rd. S., a punched hole, in a metal culvert, 1.5 ft lower than T-rd. S., painted "842.3" 842.52
- 42 9.7 UE, 1.59 mi E. along gravel rd. from tablet, a copper nail and washer in center of bridge, 22 ft higher than water, elev. 798.3 798.53

CEDAR RAPIDS QUAD. 117

- 43 9.9 North Liberty, 7.3 mi W. and 0.2 mi N. of post office at, T. 80 N., R. 8 W., near center $E\frac{1}{2}$ sec. 11, 136 ft E., 35.3 ft S. and 4.7 ft higher than center old T-rd. E., 114 ft SE. of SE. cor. abandoned schoolhouse, 21 ft W. of powerline pole, 1.8 ft N. of E.-W. fenceline, in concrete post projecting 3 in., standard tablet stamped "30 FDR 1964 801" painted "BM 801.3" 801.224

LINE 5

EAST IN NORTHEAST QUARTER OF QUAD. (By C. D. Lien, 1966, Book CV-2044)

CEDAR RAPIDS QUAD. 117

- 1 44 0.0 Ely, 2.7 mi NW. along the C. R. I. & P. RR. from the station at, 21 poles N. of milepost 91, at a public-rd. crossing, 108 ft W. of the center of the track, at a 4 ft square reinforced concrete box Hwy. culvert, in top of center of S. concrete headwall, and 5 ft lower than the track; a USC&GS standard disk stamped "851" 791.114
- 0.3 UE, a copper nail and washer in center of Co. Hwy. FF at rd. E., 3.0 mi E. from tablet, painted "809.1" 809.13
- 45 1.1 UE, 1.1 mi E. along gravel rd. from tablet, 34 ft S., 210 ft E. of private drive N., a rail spike in telephone pole, painted "827.6" 827.56
- 46 2.0 UE, T. 82 N., R. 6 W., at cor. of secs. 17, 18, 19 and 20, Ely, 2.0 mi N. along gravel rd., 20 ft S., 28 ft E. of rd. crossing; a punched hole in the E. end of a metal culvert, 1.2 ft lower than rd. crossing, painted "789.7" 789.76
- 47 2.4 UE, T. 82 N., R. 6 W., along near quarter cor. between secs. 17 and 20, Ely, 2.0 mi N. thence 0.42 mi E. along gravel rd., 19 ft N., 32 ft W. of private drive S., field rd. N., 3.9 ft higher than rd. at field rd. N., a chiseled square on the SW. cor. of cement foundation on N. side of rd., painted "866.6" 866.62
- 48 2.7 T. 82 N., R. 6 W., near the quarter cor. between secs. 17 and 20, Ely, 2.0 mi N. thence 0.71 mi E. along gravel rd., 113 ft NW., 33 ft W. from rd. intersection, 2 ft W. of fence cor., 1 ft higher than rd. at Y, a standard USC&GS disk in a concrete post stamped "57-37" Elevation by USGS 853.363
- 49 2.7 Reference mark, 200 ft E. along rd. from tablet, a rail spike in telephone pole 855.27
- 3.4 UE, 0.64 mi E. along gravel rd. from tablet, 89 ft S., 32 ft E. of center of rd. at rd. S., a rail spike in telephone pole, 0.5 ft lower than center of rd. at rd. S., painted "885.5" 885.49

LINE 5 (Cont'd)

CEDAR RAPIDS QUAD. 117

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| 1 50 3.7 | T. 82 N., R. 6 W., near the center sec. 21, Ely, 2.0 mi N. thence 1.6 mi E. along gravel rd., 9.2 ft S., 31 ft E. of the SE. cor. of church, 7 ft S. of cemetery fence; a standard disk in a concrete post level with the ground stamped "57-39" Elev. by USGS | 900.379 |
| 51 4.2 | T. 82 N., R. 6 W., Ely, 2.0 mi N. thence 2.0 mi E. along gravel rd., near the quarter cor. between secs. 21 and 22, 14 ft N. of large oak tree, 18.6 ft W. of W. steps of school; in concrete post with standard USC&GS and IGS standard disk stamped "57-40" Elev. by USGS | 872.641 |
| 52 4.2 | Reference mark, a chiseled square on the NE. cor. of cement footing of swing, 71 ft E. of tablet | 873.77 |
| 53 4.5 | UE, 0.29 mi E. along rd. from tablet, 30 ft N., 24 ft E. of rd. crossing, painted "891.3", 1 ft lower than crossroads (mark not described) | 891.32 |
| 54 4.8 | UE, 0.67 mi E. along rd. from tablet, 26 ft N., 23 ft E. of rd. at rd. S., 0.9 ft lower than rd. at rd. S., painted "888.9" (Mark not described) | 888.88 |
| 56 6.0 | UE, rail spike in telephone pole, 1.8 mi E. along rd. from tablet, 39 ft N., 37 ft W. from center of rd. at T-rd. S., 1.6 ft lower than T-rd. S., painted "880.1" | 880.09 |

MECHANICSVILLE QUAD. 116

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| 57 6.9 | T. 82 N., R. 6 W., near the quarter cor. between secs. 24 and 25, Ely, 2.0 mi N. thence 4.5 mi E. along rd., 52 ft N., 59 ft W. of private drive N., 1 ft W. of fence cor.; a standard tablet in a concrete post 6 in. above ground, stamped "5 CDL 1966" | 866.88 |
| 58 6.9 | Reference mark, 40 ft N., 200 ft E. from tablet, a rail spike in telephone pole | 859.08 |
| 7.7 | UE, T. 82 N., R. 5 W., near the NW. cor. of sec. 30, Ely, 2.0 mi N., 5.3 mi E. along rd., 21 ft N., 10 ft E. of center of rd. at private drive N., a punched hole in the E. end of a metal culvert, 1.1 ft lower than rd. at drive N., painted "841.7" | 841.74 |
| 59 8.5 | UE, T. 82 N., R. 5 W., near the center of sec. 30, Ely, 2.0 mi N. thence 6.07 mi E. along rd., a chiseled square in the SW. cor. of a concrete bridge over creek, 0.6 ft higher than rd. at bridge, painted "698.2" | 698.30 |
| 61 9.3 | Mt. Vernon, 3.2 mi S. and 2.5 mi W. of, T. 82 N., R. 5 W., in NW. cor. of sec. 31, 240 ft N. and 1.9 ft lower than Hwy. at a Hwy. concrete drain W.; a tablet in top of concrete headwall stamped "BM LIN Co Engr. Dept. 1503" painted "BM 832.5" Elev. by USGS | 832.219 |

LINE 6

WEST NEAR CENTER OF SOUTH BORDER (By F. D. Ragan, 1964, Book CV-1764)

CEDAR RAPIDS QUAD. 117

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| 0.0 | North Liberty, 0.5 mi NW. along U.S. Hwy. 218 from intersection of Main St. at, 16 ft NE. of center of Hwy. at culvert, at N. edge of town, in NE $\frac{1}{4}$ sec. 12, T. 80 N., R. 7 W., at pavement station 373+45; a reinforcing bar; USC&GS "I.H.C. BM 14" | 772.594 |
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CEDAR RAPIDS QUADRANGLE
117 - IowaLINE 6 (Cont'd)CEDAR RAPIDS QUAD. 117Feet

- 0.9 Reference mark, 74.2 ft NE. of tablet, 86.8 ft E. and 34.4 ft N. of center of T-rd. S., 20.8 ft SW. of entrance to Church of God, top of SW. cor. of concrete block; chiseled square, painted "RM 792.8" 792.82
- 0.9 North Liberty, about 1.0 mi W. of, T. 80 N., R. 7 W., at quarter cor. between secs. 11 and 12, 41 ft E., 24.8 ft S. and 0.9 ft lower than center of T-rd. S. 13.4 ft NE. of NW. fence cor., 9.1 ft N. of E.-W. right-of-way fenceline, in concrete post projecting 6 in., standard tablet stamped "TT 46 S 1929 792" painted "BM 791.9" 791.884
- 1.8 UE 46 A, 0.98 mi W. along Co. "H" from tablet, T. 80 N., R. 7 W., at quarter cor. between secs. 10 and 11, 20.2 ft S., 13.6 ft W. and 0.8 ft lower than center E.-W. rd. at private drive S. to White Larew Farm, in top of W. end of 15 in. circular metal culvert; punched hole, painted "UE 784.9" 784.9
- 2.9 UE 46 B, 2.06 mi W. along Co. "H" from tablet, T. 80 N., R. 7 W., at quarter cor. between secs. 9 and 10, 179.3 ft N., 6.3 ft lower than center of crossroads, 17 ft W. and 2.2 ft lower than center N.-S. rd. at culvert; in top of W. end of 48 in. circular metal culvert; punched hole painted "UE 768.01" 767.96

IOWA CITY QUAD. 92

- 4.1 Reference mark, 750 ft W. of tablet, 52 ft E., 17.7 ft N. and 1 ft lower than T-rd. N. at fenceline S., in top of N. end of 18 in. circular metal culvert; punched hole painted "RM 756.8" 756.79
- 4.1 Tiffin, about 2.1 mi (airline) NNE. of, about 3.0 mi SW. of North Liberty, T. 80 N., R. 7 W., about 810 ft E. of quarter cor. between secs. 15 and 16, 810 ft E. of T-rd. N., 11.2 ft S., 0.3 ft higher than center of E.-W. rd., a 2 x 4 ft concrete box culvert; center of S. culvert headwall; tablet stamped "25 FDR 1964 762 BM" painted "BM 761.6" 761.649
- 4.9 T-rd. E. 779.2
- 4.9 UE 25 A, 0.36 mi E. and 0.45 mi S. along gravel rds. from tablet, T. 80 N., R. 7 W., at quarter cor. between secs. 15 and 22, 23 ft N., 30 ft W. and 2.9 ft lower than center N.-S. rd. at wooden bridge, 0.7 ft above ground, in NW. side 12 in. cottonwood tree; body of rail spike, painted "UE 749.8" 749.75

LINE 7

WEST AND SOUTH IN SOUTHWEST PORTION OF QUAD. (By F. D. Ragan, 1964, Book CV-1764)

CEDAR RAPIDS QUAD. 117

- 0.0 UE 46 B, 2.06 mi W. along Co. "H" from tablet, T. 80 N., R. 7 W., at quarter cor. between secs. 9 and 10, 179.3 ft N., 6.3 ft lower than center crossroads, 17 ft W., 2.2 ft lower than center N.-S. rd. at culvert, in top of W. end of 48 in. circular metal culvert; punched hole, painted "UE 768.01" 767.96
- 0.5 UE 46 C, 2.6 mi E. along Co. "H" from "TT 46 S 1929", T. 79 N., R. 7 W., near center sec. 9, 7.9 ft W., 11.3 ft N., 0.7 ft lower than center E.-W. rd. at small concrete bridge, in top of N. end of W. concrete bridge headwall; chiseled square, painted "UE 746.3" 746.32
- 1.5 North Liberty, 4.0 mi W. and 0.2 mi N. of post office at, T. 80 N., R. 7 W., at center sec. 8, 161.5 ft E., 4 ft lower than center crossroads, 18 ft N. and 2.3 ft higher than center E.-W. rd. at concrete culvert; in center of N. concrete headwall of 6 ft circular metal culvert; standard tablet stamped "29 FDR 1964 784" painted "BM 783.9" 783.884

LINE 7 (Cont'd)

CEDAR RAPIDS QUAD. 117

Feet

- 1.5 Reference mark, 281.5 ft NW. of tablet, 239 ft N. of center of crossroads, 11 ft W. and 0.6 ft higher than center N.-S. rd. at concrete culvert; in the center of W. concrete culvert headwall, chiseled square, painted "RM 780.7" 768.23
- 2.2 UE 29 A, 0.6 mi W. along Co. "H" from tablet, T. 80 N., R. 7 W., near quarter cor. between secs. 7 and 8, 19 ft N. and 3.2 ft lower than center E.-W. rd. at 42 in. circular metal culvert; in top of N. end of culvert; punched hole painted "UE 780.8" 780.8
- 3.2 UE 29 B, 1.6 mi W. along Co. "H" from tablet, T. 80 N., R. 8 W., in SE. cor. NE $\frac{1}{4}$ sec. 12, 58 ft W., 34.5 ft N. and 1.9 ft higher than center of crossroads, in top of concrete fence post; chiseled square, painted "UE 768.2" 768.23
- 4.4 Reference mark, 65.7 ft NNE. of tablet, 3.5 ft SSE. of 7 in. wild cherry tree, 4.3 ft above ground, in top of concrete fence post; chiseled square painted "RM 803.5" 803.53
- 4.4 "30 FDR 1964 801" (Described in Line 4) 801.224

IOWA CITY QUAD. 92

- 5.2 UE 30 A, 0.76 mi S. along gravel rd. from tablet, T. 80 N., R. 8 W., in NE $\frac{1}{4}$ sec. 14, 35.5 ft W., 19 ft S. and 1.5 ft lower than center T-rd. W., 0.1 ft above ground, in W. side of powerline pole, head of rail spike, painted "UE 849.3" 849.27
- 5.9 UE 30 B, 1.5 mi S. along gravel rd. from tablet, T. 80 N., R. 8 W., near E. eighth cor. between secs. 14 and 23, 39 ft N., 37 ft W. and 0.2 ft higher than center N.-S. rd. at private drive W. to Mrs. Elmer Kutcher farmhouse, in NW. side of powerline pole and level with ground, head of rail spike, painted "UE 828.2" 828.18

LINE 8

NORTH ALONG EAST BORDER (By L. M. Tackett, 1963, Book CV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 USC&GS "M 76 1934" (Described in Line 2) 791.898
- 0.5 UE M 76 A, T. 81 N., R. 6 W., in NW. cor. of sec. 25, at Solon, 18 ft S. and 23 ft W. and 0.3 ft lower than T-street E., a chiseled square on concrete sidewalk in front of Solon High School, painted "UE 790.0" 789.66
- 1.2 UE M 76 B, T. 81 N., R. 6 W., in NW. cor. of sec. 24, at N. end of Solon City limits, 35 ft E. of gravel rd. and 0.5 ft lower than gravel rd., 34 ft N. of a fence cor. post; a rail spike projecting 1 ft above the ground between Hwy. 261 and gravel rd., painted "UE 753.3" 753.39
- 2.3 UE M 76 C, T. 81 N., R. 6 W., near W. sixteenth cor. between secs. 12 and 13, 22 ft N. and 51 ft W. and 1.3 ft lower than crossroad, a chiseled square on N. end of a concrete tile culvert; painted "UE 781.0" 781.11
- 3.4 Reference mark, a chiseled square, center of Hwy. 261 at T-rd. W. 862.01
- 3.4 Solon, about 2.0 mi N. of along Hwy. 261, T. 81 N., R. 6 W., at cor. secs. 1, 2, 11 and 12, 152 ft N. and 52 ft W. and 2 ft N. of power pole set flush with the ground; a standard tablet in top of concrete post stamped "864 49 LMT 1963" painted "RM 864.3" (2 ft higher than T-rd. W.) 863.978

LINE 8 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- 4.5 UE 49 LMT A, T. 81 and 82 N., R. 6 W., near quarter cor. between secs. 1 and 36, a chiseled square in center of Hwy. 261 at a gravel rd. W.; painted "UE CL 868.2" 867.93
- 5.5 BM Linn Co. Engr. Dept. 1503 (Described in Line 5) 832.219
- 6.2 UE 49 LMT B, T. 82 N., R. 5 W., in SW. cor. of sec. 30, 17 ft S. and 48 ft E. and 2 ft lower than Hwy. 261 at drive E., a punched hole in S. end of a steel pipe culvert; painted "UE 701.4" 701.1
- 6.7 UE 49 LMT C, T. 82 N., R. 5 W., near quarter cor. between secs. 29 and 30, 5.3 ft lower than floor of bridge near center of Cedar River; a chiseled square on top of third pier from N. end of bridge on the downstream side, 25 ft above the water, painted "UE 701.9" 701.64
- 7.9 Mt. Vernon, 1.5 mi S. and 2.5 mi W. of, T. 82 N., R. 5 W., near quarter cor. between secs. 19 and 24, 23 ft S. and 3.6 ft lower than rd. at field entrance N., a tablet in top of the S. concrete headwall of culvert; the tablet is stamped Linn Co. Engr. dept. 174" extended 1939 - 8 ft above the drain, painted "BM 692.1" USGS elevation 691.765
- 8.6 UE 174 A, T. 82 N., Rs. 5 and 6 W., at cor. secs. 13, 18, 19 and 24, 35 ft N. and 21 ft E. and 0.2 ft lower than T-rd. E.; a punched hole in E. end of a steel pipe culvert, painted "UE 754.9" 754.7
- 9.6 UE 174 B, T. 82 N., R. 5 and 6 W., at cor. secs. 7, 12, 13 and 18, a chiseled square in center of Hwy. 30 at gravel rd. S., painted "UE CL 763.3" 763.07
- 10.6 UE 174 C, T. 82 N., R. 6 W., in NE. cor. of sec. 12, 25 ft SE. and 12 ft E. and 3.4 ft lower than rd. at drive N., a punched hole in E. end of steel pipe culvert, under field entrance S., painted "UE 787.0" 786.7
- 11.1 UE 174 D, T. 82 N., R. 6 W., near quarter cor. between secs. 1 and 12, 15 ft SE. and 42 ft E. and 3 ft lower than T-rd. N., a punched hole in S. end of a steel pipe culvert, painted "UE 778.2" 777.9
- 12.0 Mt. Vernon, 1.0 mi N. and 3.0 mi W. of, Tps. 82 and 83 N., R. 6 W., at quarter cor. between secs. 1 and 36, 48 ft S. and 49 ft W. and 9.9 ft lower than T-rd. E., a tablet set in top of W. headwall of concrete culvert stamped "Linn Co. Engr. Dept. No. 846 1922" painted "BM 744.9" Elev. by USGS 744.595
- 12.5 UE 846 A, T. 83 N., R. 6 W., at center of sec. 36, 29 ft S. and 44 ft E. and 0.7 ft higher than crossroad, a rail spike in NW. side of a telephone pole, painted "UE 864.4" 864.11
- 13.6 UE 846 B, T. 83 N., Rs. 5 and 6 W., at cor. secs. 25, 30, 31 and 36, 25 ft N. and 22 ft E. and 2 ft lower than T-rd. N., a chiseled square in center of E. headwall of culvert; painted "UE 810.4" 810.10
- 14.6 Mt. Vernon, 3.1 mi N. and 2.5 mi W. of, T. 83 N., Rs. 5 and 6 W., at cor. secs. 19, 24, 25 and 30, 12 ft N. and 32 ft W. and 0.7 ft higher than rd. at field entrance W., 4.5 ft N. of N. gatepost flush with the ground, a standard tablet in top of a concrete post, stamped "834 50 LMT 1963" painted "BM 834.4" 834.123
- 14.6 Reference mark, 126 ft N. and 18 ft W. of rd. at field entrance W., a punched hole in W. end of steel pipe culvert 829.87
- 15.7 UE 50 LMT A, T. 83 N., Rs. 5 and 6 W., near cor. secs. 13, 18, 19 and 24, 190 ft N. and 16 ft E. and 3.2 ft lower than T-rd. N., a punched hole in E. end of steel pipe culvert; painted "UE 821.3" 821.0

LINE 8 (Cont'd)

MECHANICSVILLE QUAD. 116 Feet

16.0 Mt. Vernon, 4.0 mi N. and 2.8 mi W. of, T. 83 N., R. 5 W., near W. sixteenth cor. between secs. 18 and 19, 13 ft S. and 3 ft higher than rd. at culvert; a tablet in top of S. headwall of culvert; 17 ft above the drain, tablet is stamped "Linn Co. Engr. Dept. No. 1018 1925" painted "BM 782.9" USGS elevation 782.575

LINE 9

WEST ALONG EAST PORTION OF SOUTH BORDER (By Burns and Gillette, 1933, Book B-5063)

CEDAR RAPIDS QUAD. 117

T. 80 N., R. 6 W., near center NE $\frac{1}{4}$ sec. 10, 950 ft W. along rd. from rd. fork, on S. headwall of concrete culvert at creek; chiseled square 768.00

T. 80 N., R. 6 W., near cor. secs. 3, 4, 9 and 10, on SW. wing wall of small steel bridge over Allen Creek, chiseled square 709.10

T. 80 N., R. 6 W., cor. secs. 4, 5, 8 and 9, 2 ft S. and 46 ft E. from concrete archway in front of Will Stahle's farmhouse, 18 ft N. and 3 ft E. from center of rd., in line with fence N., in concrete post; standard tablet stamped "TT 2 E 1933" 735.786

LINE 10

WEST ALONG WEST PORTION OF SOUTH BORDER (W. R. Broadus, 1930, Book B-3701)

CEDAR RAPIDS QUAD. 117

T. 80 N., R. 7 W., at center sec. 8, 20 ft N. and 30 ft W. of crossroads, in concrete post; standard tablet stamped "TT 47 S 1929" (Reported not found 9/64, FDR) 784.930

T. 80 N., R. 8 W., 0.25 mi W. of quarter cor. between secs. 11 and 12, 20 ft W. of T-rd. E., in concrete post; standard tablet stamped "TT 48 S 1929" (Reported not found 9/64, FDR) 795.58