

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

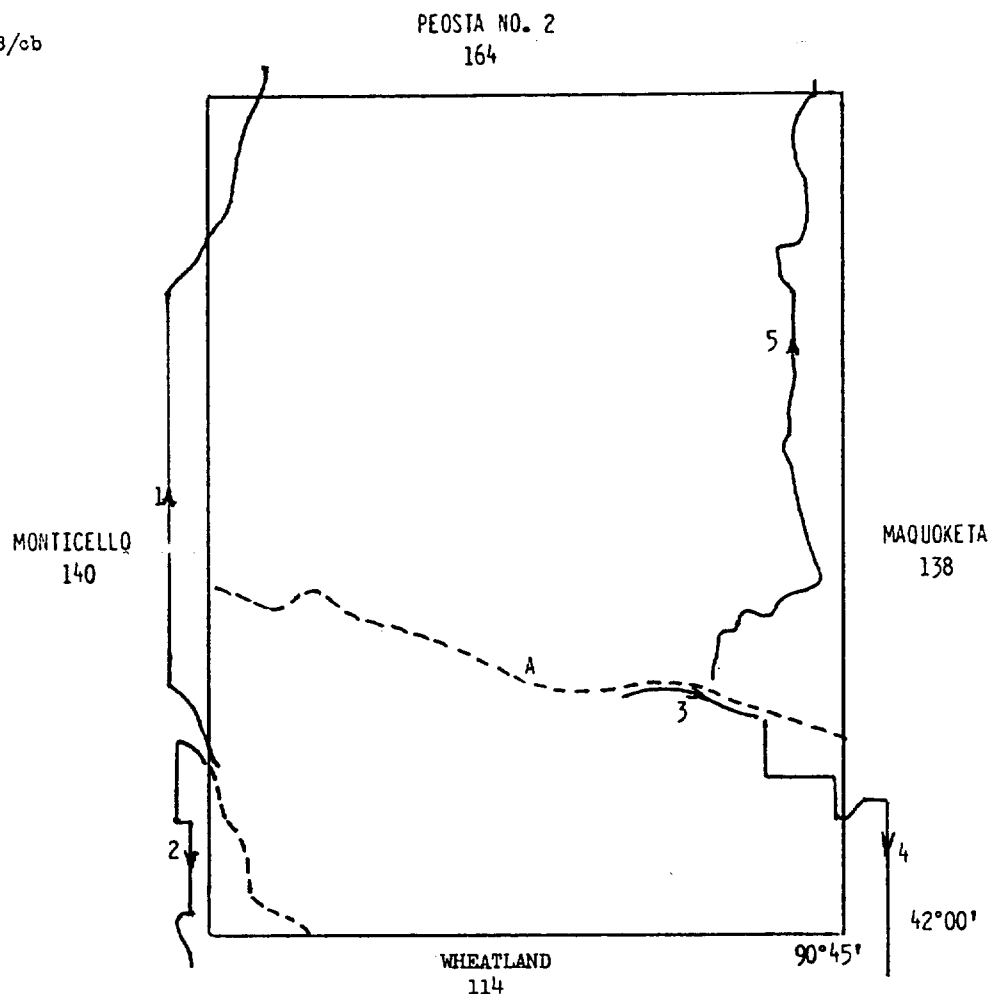
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-090-33
BALDWIN QUADRANGLE
139 - IOWA
N4200-W9045/15
DIAGRAM NK 15-6
DUBUQUE

Jones, Jackson and Clinton Counties

Edition of: 6-20-78

PR: ADP/LB/cb



N.G.S. (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle No. 420903

139 B

LINE 1

FEET

A.J. Keepes, 1977; Book CV-3400

BALDWIN QUAD. - 139

1	2	0.0	BM, at Wyoming, Jones Co., at main street bridge over Little Bear Creek, in the top of the E. end of the N. fellow guard and 0.5 ft higher than the hwy. (Iowa 64) at standard disk stamped "J 71 1934"	817.515
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MONTICELLO QUAD. - 140

2	0.4	UE 71 A, 0.4 mi	W. along State Hwy. 64 from disk, near N. sixteenth cor. secs. 25 and 30, T. 84 N., R. 1 and 2 W., centerline of junction of State Hwys. 64 and 136	847.79
4	1.1	UE 71 C, 0.4 mi	W., 0.7 mi N. of disk, near quarter cor. secs. 19 and 24, T. 84 N., Rs. 1 and 2 W., 14 ft E. and 0.6 ft higher than centerline of bridge over Little Bear Creek, a chiseled square	838.53
6	1.6	UE 71 E, 1.8 mi	S. of 1 KEE 1977, near cor. secs. 13, 18, 19 and 24, T. 84 N., Rs. 1 and 2 W., 34 ft E. and 4.6 ft lower than centerline of hwy. at drain, in center of E. headwall of a box culvert, a State Hwy. rivet and washer	851.53
9	2.4	UE 71 F, 1.1 mi	S. of 1 KEE 1977, near quarter cor. of secs. 13 and 18; centerline of hwy. 136 at drive E. a masonry nail	892.7
11	3.5	Reference mark, 44 ft	W. of BM in center of W. headwall of box culvert, a state hwy. BM (washer and rivet)	916.71
12	3.5	BM, at Onslow, T. 84 N., Rs. 1 and 2 W. near N. sixteenth cor. secs. 7 and 12, at the S. edge of town near the city park, 100 ft S., 22 ft E. and 2.5 ft lower than cross street, set in center of E. headwall of a concrete box culvert, a standard tablet stamped "1 KEE 1977"		915.833
14	3.7	UE 1 KEE A, 0.2 mi	N. of BM, about 314 ft E. of hwy. 136 and behind the F.S. Service station in Onslow, at site of the old RR. water tower N.G.S. disk "W 79 1934" was 4-in. SW. of this chiseled square	918.30
16	4.6	UE 1 KEE B, 1.1 mi	N. of tablet, at cor. secs. 1, 6, 31 and 36; T. 84 and 85 N., Rs. 1 and 2 W., and 1.5 ft lower than crossroads, on S. end of a 24-in. tubular concrete culvert; a chiseled square	878.13
18	5.4	UE 1 KEE C, 1.7 mi	N. of tablet, T. 84 N., Rs. 1 and 2 W., near N. sixteenth cor. secs. 31 and 36, 159 ft N., 19 ft W. and 0.6 ft higher than T-rd. NE., in center of W. headwall of a concrete culvert, a State Hwy. BM (rivet and washer)	834.77
19	5.9	BM, Onslow, 2.5 mi	N. of, T. 85 N., Rs. 1 and 2 W., near quarter cor. secs. 25 and 30, 17 ft E. and 0.3 ft higher than centerline of bridge, set in wingwall of bridge 4.5 ft NW. of SW. end of SE. wingwall of a concrete bridge, a standard tablet stamped "2 KEE 1977"	831.443
20	5.9	Reference mark at NW. cor. of bridge, 15 ft	S. of N. end of W. abutment; a chiseled square	831.38
22	6.8	UE 2 KEE B, 0.9 mi	N. of tablet, near S. sixteenth cor. secs. 19 and 24, 33 ft S., 38 ft W. and 5.6 ft lower than T-rd. E., in N. end of a steel culvert at private drive W., a masonry nail	889.23
25	7.7	UE 2 KEE D, 1.7 mi	N. of tablet, 0.5 mi S. of 3 KEE 1977, 485 ft S., 65 ft W. and 13.3 ft lower than T-rd. E. (Hwy. 136 and County Hwy. E-17), on W. end of a 24-in. concrete culvert, a chiseled square	874.21

LINE 1 (Cont'd)

MONTICELLO QUAD. - 140

FEE

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|------|------|--|---------|
| 1 28 | 8.4 | Reference mark, 51 ft NW. of tablet, on N. end of E. headwall of concrete culvert, a chiseled square | 813.24 |
| 29 | 8.4 | Onslow, 4.9 mi N. of, T. 85 N., Rs. 1 and 2 W., near cor. secs. 12, 13, 7 and 18, 930 ft S., 28 ft W. of T-rd. E., 4.4 ft lower and 28 ft W. of road at drain, set in S. end of W. headwall of a concrete culvert, a standard tablet stamped "3 KEE 1977" | 811.674 |
| 32 | 9.3 | UE 3 KEE B, 0.9 mi N. of tablet, 0.9 mi S. of 4 KEE 1977, 260 ft S., 39 ft E. and 6.6 ft lower than field entrance E., on E. end of a concrete culvert, a chiseled square | 934.33 |
| 35 | 10.3 | Onslow, 6.8 mi N. along State Hwy. 136 from T. 85 N., R. 1 W., near center of sec. 6, 18.5 ft W. and 0.4 ft higher than S. end of bridge over the Maquoketa River, set in concrete headwall, 2.5 ft S. of N. side of S. headwall, a standard tablet stamped "4 KEE 1977" | 760.723 |
| 36 | 10.3 | Reference mark, 462 ft N. of tablet, 3 ft S. of N. end of W. headwall, at base of steel railing, a state hwy. (rivet and washer) EM | 755.20 |

BALDWIN QUAD. - 139

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|----|------|---|---------|
| 38 | 11.4 | UE 4 LEE B, 1.1 mi N. of tablet, T. 86 N., R. 1 W., near center sec. 32, centerline of Hwy. 136 at T-rd. E., a copper nail and washer | 779.9 |
| 40 | 12.3 | UE 4 KEE D, 2 mi N. of tablet, 1 mi S. of 5 KEE 1977 near center of sec. 29, T. 86 N., R. 1 W., 71 ft E., 22 ft S. and 1.8 ft lower than crossroads, on W. side of a concrete base of a mercury vapor light, a chiseled square | 921.95 |
| 43 | 13.3 | Reference mark, 108 ft SW. of tablet, at S. end of W. abutment, 12 ft W. of Hwy. at S. end of bridge, a chiseled square | 817.11 |
| 44 | 13.3 | Onslow, 9.3 mi N. along State Hwy. 136 from; 3.5 mi S., 1.5 mi E. of Cascade, near center of sec. 20, T. 86 N., R. 1 W., 17.5 ft E. and 0.1 ft lower than Hwy. at N. end of a bridge over Farm Creek, 0.5 ft SW. of NE. end of NE. wingwall, set in concrete wingwall, a standard tablet stamped "5 KEE 1977" | 816.699 |
| 47 | 13.6 | UE 5 KEE B, 0.5 mi N. of tablet, near E. sixteenth cor. secs. 17 and 20, 541 ft N. and 9.6 ft higher than T-rd. W., 21 ft E. and about 1 ft lower than road at drain, in center of E. headwall of a concrete culvert, a State Hwy. EM (rivet and washer) | 838.98 |

PEOSTA QUAD. NO. 2 - 164

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| 50 | 14.9 | Cascade, about 2 mi S. and 1.5 mi E. of; T. 86 N., R. 1 W., near quarter cor. of sec. 8, and 17, 30 ft SW. and 4.8 ft lower than center of hwy. 136; on top of S. end of SW. headwall of a 4 by 6 ft concrete cattle pass; a standard tablet stamped "36 GDS 1964" | 935.552 |
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LINE 2

A.J. Keepes, 1977; Book CV-3400

BALDWIN QUAD. - 139

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|------|-----|---|---------|
| 1 53 | 0.0 | EM, At Wyoming, Jones County, at the Main Street bridge over Little Bear Creek, in the top of the E. end of the N. fellow guard, and about 0.5 ft higher than the roadway, a standard US&GS disk stamped "J 71 1934". | 817.515 |
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MONTICELLO QUAD. - 140

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|----|-----|--|--------|
| 53 | 0.4 | UE J 71 L, 0.4 mi SW. of disk, near center of sec. 30, T. 84 N., R. 1 W., centerline of a concrete bridge over Bear Creek, a chiseled square | 816.45 |
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LINE 2 (Cont'd) MONTICELLO QUAD. - 140 FEET

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|---|----|-----|--|---------|
| 1 | 55 | 1.0 | UE J 71 M, 1 mi S. of disk, near center cor. secs. 31, T. 84 N., R. 1 W., 36 ft S. 22 ft W. and 1.4 ft lower than crossroads, on W. end of a tubular concrete culvert; a chiseled square | 874.20 |
| | 57 | 1.6 | Reference mark, 223 ft W. of tablet, 26 ft N. of road at drain, near N. end of a 48-in. tubular concrete culvert, 0.6 ft lower than road at drain, a chiseled square | 818.01 |
| | 58 | 1.6 | BM, Wyoming, 2 mi S., 0.2 mi E. of, near quarter cor. secs. 6 and 31, T. 83 N., R. 1 W., 223 ft E. and 1.7 ft higher than road at drain, 62 ft W., 2 ft N. of a fence corner, 150 ft N. of road at curve, 2 ft N. of a power pole, set atop copper coated steel rods, and inside a drainage tile, a standard tablet stamped "6 KEE 1977" | 820.363 |
| | 60 | 2.6 | UE 6 KEE A, 1 mi S. of tablet, near quarter cor. secs. 6 and 7, T. 83 N., R. 1 W., 29 ft S., 21 ft W. and 2 ft lower than crossroads, on W. end of a 14-in. tubular concrete culvert; a chiseled square | 803.68 |
| | 62 | 3.4 | UE 6 KEE B, 1.8 mi S. of tablet, 136 ft W., 15 ft S. and 0.7 ft lower than T-rd. N., at SW. end of SW. wingwall of a small concrete bridge; a chiseled square | 738.36 |

TIPTON QUAD. - 115

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| 64 | 4.4 | BM, Wyoming, 4 mi S. of; 1.3 mi N., 3.1 mi W. of Oxford Mills, near quarter cor. secs. 13 and 18, T. 83 N., R. 1 and 2 W., 12 ft S. of centerline of road, 0.4 ft lower than centerline bridge, set in W. end of SE. wingwall of N. abutment of bridge, a standard tablet stamped "7 KEE 1977" | 731.527 |
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LINE 3

T.P. Adams, 1977; Book CV-3402

BALDWIN QUAD. - 139

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|---|----|-----|---|---------|
| 3 | 3 | 0.0 | BM, at Baldwin; T. 84 N., R. 1 E., 55 ft S. and 151 ft E. and 1.1 ft lower than State Hwy. No. 64 at section line road crossing; about 0.25 mi S. of the corner of secs. 15, 16, 21 and 22; on top of the W. end of the N. headwall of a stone culvert under a private drive; set in a drill hole; a standard N.G.S. tablet stamped "R 79 1934" | 716.278 |
| | 5 | 1.0 | UE R 79 A, 0.9 mi E. along road from tablet; T. 84 N., R. 1 E.; 0.1 mi S. and 0.1 mi W. of the corner of secs. 14, 16, 22 and 23; 11 ft N. and 36 ft E. and 0.6 ft higher than center of bridge; 14.9 ft higher than water; on top of the S. end of the NE. concrete wingwall of bridge; set in a drill hole; top of steel bolt | 705.13 |
| | 7 | 1.1 | UE R 79 B, 1 mi E. of tablet; T. 84 N., R. 1 E., about 0.1 mi S. of the corner of secs. 14, 15, 22 and 23; 14 ft S. and 78 ft W. and 0.7 ft lower than T-rd. N.; on the center of a curve in the E. concrete curb of a gutter; a chiseled square | 703.25 |
| | 8 | 1.3 | BM, Baldwin; 1 mi E. of; T. 84 N., R. 1 E.; about 0.25 mi S. of the cor. of secs. 14, 15, 22 and 23; about 900 ft S. of State Hwy. No. 64 at section line gravel road N.; 6 ft S. and 46 ft E. of a fence corner W. and S.; on top of concrete post; a standard N.G.S. tablet stamped "Q 79 1934" | 699.186 |
| | 11 | 2.5 | UE Q 79A, about 0.2 mi N.; thence 1 mi E. along road from tablet; T. 84 N., R. 1 E., about 0.2 mi S. of the corner of secs. 13, 14, 23 and 24; 15 ft N. and 68 ft E. and 0.5 ft higher than State Hwy. No. 64 at bridge; 16.5 ft higher than water; on top of the N. corner of the NE. end of the NE. concrete wingwall; set in a drill hole; top of steel bolt | 694.20 |

LINE 3 (Cont'd)

BALDWIN QUAD. - 139

FEET

- 3 12 3.6 UE Q 79 B, about 0.2 mi N.; thence 2.1 mi E. along road from tablet; about 0.1 mi S. of the quarter corner between secs. 24, T. 84 N., R. 1 E., and sec. 19; T. 84 N., R. 2 E., 30 ft S. and 101 ft W. (normal to hwy.) and 3.9 ft lower than State Hwy. No. 64, at T-rd. S. to Nashville; 1 ft N. of a power pole; driven flush with the ground; top of copper coated steel rod 730.74
- 15 4.0 BM, At Nashville; near the NW. edge of the village; about 0.18 mi N. and 0.13 mi W. of the corner of secs. 24 and 25; T. 84 N., R. 1 E., and secs. 19 and 30; T. 84 N., R. 2 E., 38 ft N. and 190 ft W. and 1.4 ft lower than road at drain near the abandoned railroad grade; on top of a concrete post; a standard N.G.S. tablet stamped "P 79 1934" 714.165

LINE 4

T.P. Adams, Jr., 1977; Book CV-3402

BALDWIN QUAD. - 139

- 3 16 0.0 BM "P 79 1934" (Described in Line 3) 714.165
- 17 0.3 UE P 79 A, about 0.18 mi S. and 0.13 mi E. of tablet; 16 ft N. and .28 ft E. and 1.8 ft lower than crossroads at the approx. cor. of secs. 24, and 25, T. 84 N., R. 1 E., and secs. 19 and 30; T. 84 N., R. 2 E.; on top of the N. end of a 1 ft corrugated metal culvert; a punched hole 719.38
- 20 1.3 UE P 79 B, 1.2 mi S. and 0.13 mi E. of tablet; 23 ft E. and 0.9 ft lower than T-rd. E. at the approx. cor. of secs. 25 and 36; T. 84 N., R. 1 E. and secs. 30 and 31; T. 84 N., R. 2 E.; on top of the SE. end of a 1 ft corrugated metal culvert; a punched hole 785.91
- 23 2.2 UE P 79 C, about 1.2 mi S. and 0.95 mi E. of tablet; T. 84 N., R. 2 E., about 0.15 mi W. of cor. of secs. 29, 30, 31 and 32; 7 ft N. and level with the center of a bridge; 1 ft S. of the center of the N. edge of bridge; 15 ft higher than water, a copper nail and washer 730.62
- 25 2.9 BM, Nashville; 1 mi S. and 1.5 mi E. of; T. 84 N., R. 2 E., 30 ft S. and 29 ft E. and 0.2 ft higher than T-rd. W. at the approx. quarter cor. of secs. 29 and 32; 1.2 ft S. of a power pole; 1.5 ft W. of the E. right-of-way fence; 1 ft N. of a witness sign; inside of a 6-in. clay drain tile; on top of a copper coated steel rod; a standard tablet stamped "7 TPA 1977" 762.849
- 26 2.9 Reference mark, 225 ft S. of tablet; 255 ft S. and 15 ft E. and 6.6 ft lower than T-rd. W.; on top of the E. end of a 2 ft corrugated metal culvert; a punched hole 755.99
- 28 3.7 UE 7 A, 0.85 mi S. of tablet; 0.15 mi N. of the quarter cor. between secs. 32; T. 84 N., R. 2 E., 337 ft N. and 16 ft E. and 20.2 ft lower than T-rd. NE.; on top of the NE. end of an 18-in. corrugated metal culvert; a punched hole 828.69

MAQUOKETA QUAD. - 138

- 32 4.5 UE 7 B, 0.5 mi S. and 0.5 mi E. of tablet, T. 84 N., R. 2 E.; 20 ft S. and 23 ft E. and 0.5 ft higher than T-rd. E. at the approx. quarter cor. between secs. 32 and 33; on top of the S. concrete headwall of a culvert; at an angle in headwall; a chiseled square 776.01

LINE 4 (Cont'd)

MAQUOKETA QUAD. - 138

FEET

- 3 33 5.0UE 7 C, 0.5 mi S. and 1 mi E. of tablet; T. 84 N., R. 2 E.; 17 ft N. and 64 ft W. and 2.6 ft lower than crossroad at the approx. center of sec. 33; on top of the N. end of a 2 ft corrugated metal culvert; a punched hole 797.63
- 36 5.6 BM, Nashville; 2 mi S. and 2.5 mi E. of; 3 ft S. and 87 ft E. and 17.9 ft lower than road at E.-W. fence at the approx. quarter cor. between secs. 33; T. 84 N., R. 2 E., and sec. 4; T. 83 N., R. 2 E.; 1 ft S. of a power pole; 1 ft N. of a witness sign; inside of a 6-in. clay drain tile; on top of a copper coated steel rod; a standard tablet stamped "8 TPA 1977" 747.402
- 37 5.6 Reference mark, 117 ft S.-SW. of tablet; 122 ft S. and 60 ft E. and 16.6 ft lower than road at fence E. and W.; on top of the E. end of a 6 ft corrugated metal culvert; a punched hole 748.68
- 40 6.4 UE 8 A, 0.8 mi S. of tablet; T. 83 N., R. 2 E., 0.2 mi N. of the quarter cor. between secs. 4 and 9, 43 ft S. and 16 ft W. and 2.5 ft higher than the center of the bridge, over Prairie Creek; 15.5 ft higher than water; on top of the N. end of the SW. concrete guard rail; a metal disk stamped "716.83 1977" 724.54
- 42 6.6 UE 8 B, 1 mi S. of tablet; T. 83 N., R. 2 E., 33 ft N. and 48 ft W. and 5.4 ft lower than crossroads at the approx. quarter between secs. 4 and 9, 0.4 ft S. of the N. end of a 3 ft corrugated metal culvert; a punched hole 720.44
- 45 7.6 UE 8 C, 2 mi S. of tablet; T. 83 N., R. 2 E., 25 ft N. and 56 ft E. and 3.5 ft lower than crossroad at the approx. quarter cor. between secs. 9 and 16; on top of the N. end of a 3 ft corrugated metal culvert; a punched hole 733.39

DEWITT QUAD. - 113

- 48 8.2 BM, Nashville, 4.5 mi S. and 2.5 mi E. of; about 0.25 mi N. and 0.25 mi E. of Elwood; T. 83 N., R. 2 E.; near the center of sec. 16; 214 ft SW. of the center of State Hwy. 136 at a N.-S. road crossing; 18 ft SW. and 17 ft NW. and 2.9 ft higher than hwy. at the center of a bridge; 21.9 ft higher than water; on top of the SW. end of the NW. concrete guard rail; set in a drill hole; a metal disk stamped "I.H.C. BM" 738.026
- 49 8.3 Reference mark, 56 ft E. of tablet; 24 ft NE. and 20 ft SE. and 0.4 ft higher than center of bridge; on top of the E. end of the eastern-most concrete wingwall of bridge; a chiseled square 735.51
- 51 8.3 UE I.H.C. A, about 150 ft S. and 150 ft E. of tablet; about 300 ft S. of crossroad; T. 83 N., R. 2 E., about 0.1 mi S. of the center of sec. 16; 9 ft E. and 0.5 ft higher than the center of a bridge; 14.8 ft higher than water; on top of the center of the W. edge of the E. concrete curb of bridge; a chiseled square 731.25

LINE 5

L.A. Perry, 1977; Book CV-3404

BALDWIN QUAD. - 139

- 2 60 0.0 UE Q 79 A, about 0.2 mi N., thence 1 mi E. along road from N.G.S. BM "Q 79 1934", T. 84 N., R. 1 E., about 0.2 mi S. cor. of secs. 13, 14, 23 and 24; 15 ft N. and 68 ft E. of and 0.5 ft higher than State Hwy. 64 at bridge over Bear Creek; 16.5 ft higher than water; on top of N. corner of NE. end of NE. concrete wingwall; set in a drill hole, top of steel bolt 694.198
- 61 0.9 Reference mark, 55 ft W. of tablet; 18 ft NW. of centerline of road; top of S. end of W. headwall; a chiseled square 692.25

LINE 5 (Cont'd)

BALDWIN QUAD. - 139

FEET

- 2 59 0.9 BM, Nashville, about 1.75 mi NW. (airline) of; in NW $\frac{1}{4}$ sec. 13, T. 84 N., R. 1 E., about 1000 ft W. of jct. Maquoketa River and Bear Creek; 26 ft SE. of centerline of road, set in drill hole in top of NE. end of SE. headwall; a standard tablet stamped "9 LAP 1977" 691.379
- 63 1.4 UE 9 LAP A, about 0.5 mi N. of tablet; near N. quarter cor. of NW $\frac{1}{4}$ of sec. 13, T. 84 N., R. 1 E.; at centerline of bridge over Maquoketa River; a copper nail and washer 693.08
- 65 2.1 UE 9 LAP B, about 1.2 mi N. and E. along roads from tablet; about 1500 ft N. of SE $\frac{1}{4}$ sec. 12, T. 84 N., R. 1 E., 53 ft N. of centerline of road E. and 35 ft E. of centerline road S.; 0.1 ft N. of S. edge and 1.2 ft W. of edge of well platform under a windmill, a chiseled square 743.20
- 63 2.9 UE 9 LAP C, about 1 mi N. and 1 mi E. along roads from tablet; at center of SW $\frac{1}{4}$ sec. 7, T. 84 N., R. 2 E.; 16 ft E. of road N., 24 ft N. of road W.; 0.2 ft W. of E. end of battered 16-in. steel culvert; a cut "X" 802.81
- 71 3.7 Reference mark, 124 ft W. and across road from BM, 30 ft N. and 14 ft E. and 3.7 ft lower than road at drive S., 0.3 ft S. of power pole; on top of 0.5-in. copper coated steel rod 899.70
- 72 3.8 BM, Baldwin, about 3.75 mi E. and 1.75 mi N. along roads from; about 5.5 mi NW. (airline) from Maquoketa; in NE $\frac{1}{4}$ of sec. 7, T. 84 N., R. 2 E., 44 ft S. of road at fence S.; 5 ft N. fence cor., 0.7 ft N. of witness post; set in gravel filled 6-in. clay tile; a standard rod supported tablet (rod driven 15 ft to refusal) stamped "10 LAP 1977" 904.909
- 76 4.6 UE 10 LAP A, about 0.8 mi NE. along roads from tablet; near W $\frac{1}{4}$ cor. of SW $\frac{1}{4}$ sec. 5, T. 84 N., R. 2 E.; 14 ft S., 41 ft W. and 3.9 ft lower than T-rd. E., on top of S. end of 2 ft steel culvert; a cut plus 924.63
- 79 5.5 Reference mark, 124.5 ft S. of BM; 56 ft W. of centerline of road; 79 ft S. of SE. cor. building, 7 ft N. of NE. cor. of sign foundation; 1 ft E. of road station sign No. 20; on top of steel rebar extending from concrete post 928.98
- 80 5.5 BM, Maquoketa, 5 mi W. and about 3.5 mi N. of; about 1100 ft W. of NE. cor. sec. 6, T. 84 N., R. 2 E., 180 ft SW. and 1.6 ft lower than T-rd. W. to Maquoketa Caves State Park; 151 ft S. of road W., 107 ft W. of road S.; at Sager NE. cor. of building; a standard rod supported tablet (rod driven 19 ft to refusal) set in gravel filled 6-in. clay tile and stamped "11 LAP 1977" 932.722
- 3 3 6.0 UE 11 LAP A, about 0.5 mi N. of tablet, in NE $\frac{1}{4}$ sec. 31, T. 85 N., R. 2 E., 34 ft S. and 57 ft E. of and 3.6 ft lower than T-rd. E.; on top of S. end of 2 ft steel corrugated culvert; a cut "X" 928.48
- 5 6.6 UE 11 LAP B, about 1.1 mi N. along road from tablet; near N $\frac{1}{4}$ cor. sec. 31, T. 85 N., R. 2 E., at an abandoned school building, 17 ft S. and 36 ft W. of and 3.2 ft lower than road at entrance W.; 0.5 ft N. of S. end of 18-in. steel culvert; a punched hole 952.43
- 8 7.7 Reference mark, 43.5 ft SW. of tablet; 23 ft S. and 30 ft E. of road at entrance E., top of S. end of 18-in. steel culvert; a punched hole 920.23
- 9 7.7 BM, Emeline, about 3 mi E. and 0.5 mi S. of; Iron Hill, about 0.5 mi N. of; about 650 ft E. of N $\frac{1}{4}$ sec. 30, T. 85 N., R. 2 E.; 52 ft E. and 15 ft N. of and 1.3 ft higher than road at entrance E.; 1 ft W. of E. right-of-way fence; 1.5 ft N. of witness post; a standard rod supported tablet (rod driven 13.5 ft to refusal) set in gravel filled 6-in. clay tile and stamped "12 LAP 1977" 922.558

LINE 5 (Cont'd)

BALDWIN QUAD. - 139

FEET

- 3 12 8.2 UE 12 LAP A, about 0.55 mi N. of tablet, near center of secs. 19, T. 85 N., R. 2 E., 14 ft SW. and 24 ft NW. and 1.2 ft lower than road at entrance NW.; 0.2 ft N. of S. end of 18-in. steel culvert; punched hole 895.87
- 14 9.0 UE 12 LAP B, about 1.3 mi N. of tablet; about 1450 ft S. of $N\frac{1}{4}$ cor. of $SE\frac{1}{4}$ sec. 18, T. 85 N., R. 2 E., 27 ft W. of and 6.5 ft lower than centerline of road at drain; 1 ft E. of W. end of 15 ft steel culvert; set in punched hole, a copper nail and washer 738.35
- 18 9.5 UE 12 LAP C, about 1.9 mi N. of tablet; near center of $NE\frac{1}{4}$ sec. 18, T. 85 N., R. 2 E.; about 425 ft S. of road at drive W.; 16 ft W. of and 2.0 ft lower than road at culvert; 0.5 ft E. of W. end of 30 in. steel culvert; a punched hole 769.19
- 21 9.8 UE 12 LAP D, about 2.1 mi N. of tablet at T-rd. W.; at $N\frac{1}{4}$ of $NE\frac{1}{4}$ sec. 18, T. 85 N., R. 2 E.; 38 ft S. and 22 ft W. of and 4.1 ft lower than T-rd. W.; 0.9 ft E. of W. end of 2 ft steel culvert; a punched hole 752.41
- 22 10.3 Reference mark 1, 31.3 ft E. of tablet; 16 ft E. of centerline of road; top of SE. wing-wall of bridge over North Fork Maquoketa River; a chiseled square 728.10
- 23 10.3 BM, Emeline, about 3.25 mi E. and 2 mi N. of; Iron Hill, about 3 mi N. of, near $N\frac{1}{4}$ cor. of $SE\frac{1}{4}$ sec. 7, T. 85 N., R. 2 E., at bridge over North Fork Maquoketa River; 6 ft S. and 15 ft W. of centerline of road at S. end of bridge; on top of SW. wingwall, set in drill hole, a standard tablet stamped "13 LAP 1977" 728.128
- 25 10.3 Reference mark 2, 334 ft N. and 31 ft E. of tablet; 6 ft N. and 15 ft of road at N. end of bridge; top of NE. wing wall, a chiseled square 722.577
- 27 10.9 UE 13 LAP A, about 0.55 mi N. of tablet, about 500 ft W. of $S\frac{1}{4}$ cor. of $SE\frac{1}{4}$ sec. 6, T. 85 N., R. 2 E.; about 350 ft W. of T-rd. NE.; 31 ft N. of and 4.5 ft lower than centerline of road at drain; 2 ft S. of N. end of 4 ft steel culvert; a cut "X" 756.64
- 30 11.4 UE 13 LAP B, about 1.1 mi N. of tablet; in $NE\frac{1}{4}$ of $SW\frac{1}{4}$ sec. 6, T. 85 N., R. 2 E.; 16 ft N. and 32 ft E. of and 4.3 ft lower than road at entrance E.; 0.2 ft S. of N. end of 24-in. steel culvert; a cut "X" 782.01
- 31 11.8 UE 13 LAP C, about 1.5 mi NNW. of tablet; in $E\frac{1}{2}$ of $NW\frac{1}{4}$ sec. 6, T. 85 N., R. 2 E.; 99 ft ESE. of and 3.7 ft lower than road junction; 52 ft S. of road E.; 63 ft NE. of road SE.; 0.7 ft N. of power pole, on top of copper coated steel rod projecting 0.2 ft 888.00
- 38 12.7 BM, Otter Creek, about 4.25 mi W. and 2.25 mi S. of; near SE. cor. sec. 31, T. 86 N., R. 2 E., 19 ft W. of and 3.4 ft lower than road at drain; 11.3 ft higher than water; top of S. end of W. headwall; a standard tablet stamped "14 LAP 1977" 726.775
- 35 12.7 Reference mark, 42 ft E. and 13 ft S. of tablet; 23 ft E. of road at drain; top of N. end of E. headwall; a chiseled square 725.65
- 37 12.9 UE, about 0.2 mi N. of tablet, near $W\frac{1}{4}$ cor. of $SW\frac{1}{4}$ sec. 32, T. 86 N., R. 2 E., 24 ft E. and 12 ft N. of and 1.4 ft lower than road at entrance E.; 0.5 ft S. of N. end of 18-in. steel culvert; a painted square 771.95
- 41 13.3 UE 14 LAP A, about 0.6 mi N. of tablet; about 500 ft N. of $E\frac{1}{4}$ cor. sec. 31, T. 86 N., R. 2 E.; 17 ft N. and 31 ft W. of and 6.7 ft lower than road at drain; 0.4 ft SE. of NW. end of 5 ft steel culvert; set in punched hole, a copper nail and washer 766.48

LINE 5 (Cont'd)

BALDWIN QUAD. - 139

FEET

- 3 43 13.5 UE 14 LAP B, about 0.75 mi N. of tablet; at $W\frac{1}{4}$ cor. of $NW\frac{1}{4}$ sec. 32, T. 86 N., R. 2 E.; 38 ft N. and 54 ft E. and 1.9 ft lower than road at drive E.; in power pole, a R.R. spike set at ground level 825.34
- 46 14.1 UE 14 LAP C, about 1.4 mi N. along roads from tablet; near SW. cor. of sec. 29, T. 86 N., R. 2 E., 81 ft N. of T-rd.; 58 ft NNW. (normal) and $3\frac{1}{4}$ ft ENE. of and 5.2 ft lower than T-rd.; 5.5 ft N. of power pole; 1 ft S. of fence corner post; on top of copper coated steel rod projecting 0.2 ft 898.98
- 48 14.5 UE 14 LAP D, about 1.8 mi N. of tablet; in $SE\frac{1}{4}$ of $NE\frac{1}{4}$ sec. 30, T. 86 N., R. 2 E.; 44 ft N. of center of bridge; 15 ft NW. and 16 ft NE. of road at NW. end of bridge; on top of wood piling, head of a RR. spike 743.48
- 49 14.9 BM, 15 LAP 1977, Otter Creek, about 4.5 mi W. and 0.25 mi S. of; at $N\frac{1}{4}$ cor. of $NE\frac{1}{4}$ sec. 30, T. 86 N., R. 2 E., 82 ft S. and 81 ft W. of and 8.5 ft higher than T-rd. W., 1 ft N., and 0.5 ft E. of NE. cor. of building; a standard rod supported tablet (driven 10 ft to refusal) in 6-in. gravel filled tile, stamped "15 LAP 1977" 805.981
- 50 14.9 Reference mark, 121 ft NE. and across road from tablet; 31.5 ft N. and 36 ft W. and same elevation as T-rd. W.; 1 ft W. of fence corner, on top of copper coated steel rod projecting 0.2 ft 797.46
- 52 15.3 UE 15 LAP A, about 0.4 mi N. of tablet; about 700 ft S. of $N\frac{1}{4}$ cor. of $SE\frac{1}{4}$ sec. 19, T. 86 N., R. 2 E., centerline of fence E. 810.4
- 54 15.7 UE 12 GDS C, near center of $NE\frac{1}{4}$ sec. 19, T. 86 N., R. 2 E.; 61 ft N., 21 ft E. and 6.8 ft lower than T-rd. S., at abandoned frame school building; 4 ft S. and 5.5 ft E. of SW. corner of building, 0.2 ft E. and 0.4 ft N. of SW. corner of concrete step, a chiseled square 904.51
- 56 16.1 UE, in $NW\frac{1}{4}$ $NW\frac{1}{4}$ sec. 20, T. 86 N., R. 2 E.; 30 ft N., 56 ft W. and 0.2 ft lower than T-rd. N., 30 ft N. and 17 ft E. of drive N.; top of E. end of 1.5 ft corrugated steel culvert; a punched hole 874.470