

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

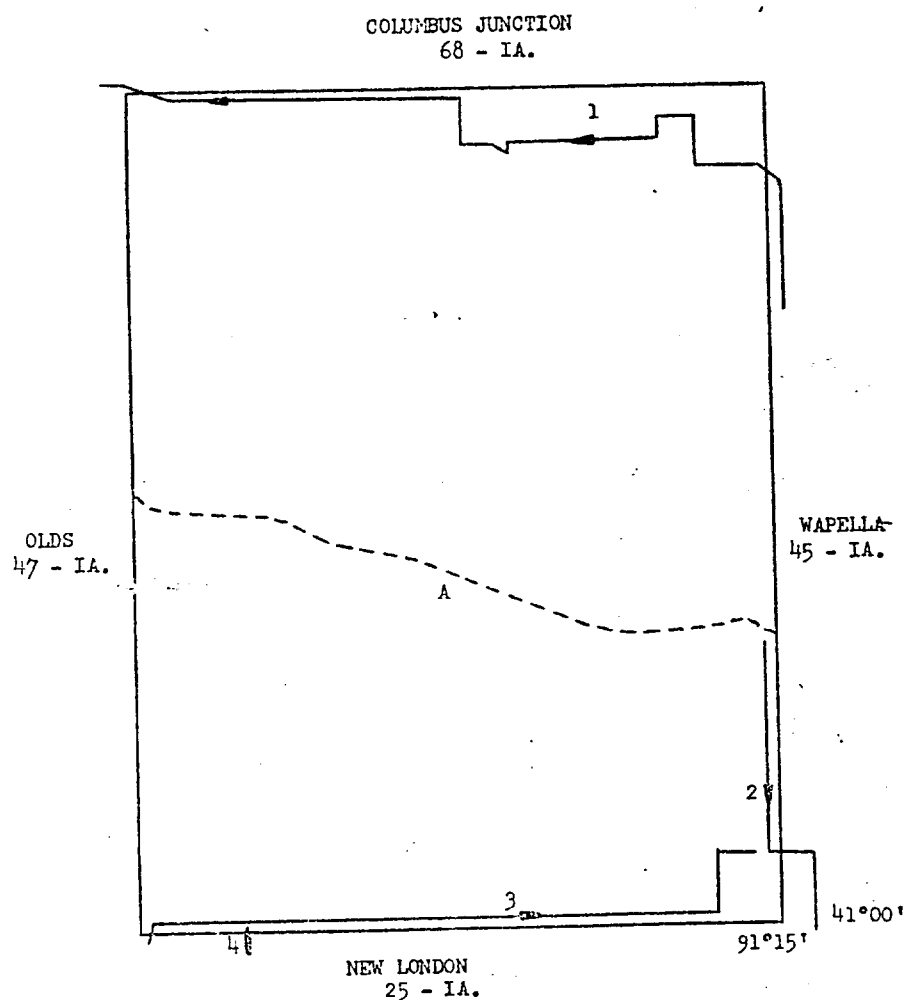
THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Henry, Washington, Louisa and Des Moines
Counties

41-091-23
WINFIELD QUADRANGLE
46 - IOWA
N4100-W9115/15
DIAGRAM NK 15-9
DAVENPORT

Edition of: 9/1/87

PR: WKM



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

A. Quadrangle No. 410912

LINE 1

FEET

D.D. Bolin, 1976; Book CV-3332

WAPELLO QUAD. - 45

- 1 8 2.6 UE 7 CC, 2.6 mi N. along road from the tablet; T. 74 N., R. 3 W., about 400 ft N. of the quarter cor. between secs. 7 and 18; 54 ft S., 40 ft E. and level with the centerline of the Y-rd. SE., 1 ft N. of the cor. fence post; on top of a copper coated rod projecting 1 ft above the ground

587.97

WINFIELD QUAD. - 46

- 10 4.0 Reference mark, 272 ft SE. of a tablet, 111 ft E., 31 ft S. centerline of RR. crossing on the N. side of a lone tree, a RR. spike

594.94

- 11 4.1 EM, Columbus City, 2 mi S. and 5.5 mi E. of; T. 74 N., R. 4 W., near the W. sixteenth cor. between the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of sec. 12; 46 ft N., 111 ft W. and 3.9 ft higher than the centerline of the RR. crossing, 30 ft SW. of the SW. rail; 1 ft NE. of the SW. right-of-way fence, 1 ft NE. of the witness post; inside of a 6-in. drain tile, a standard tablet stamped "1 DDB 1976"

Reset
1987
see last
page

- 15 4.6 UE 1 A, 0.6 mi W. along road from the tablet; T. 74 N., R. 4 W.; near the E. sixteenth cor. between the NE $\frac{1}{4}$ and the SE $\frac{1}{4}$ of sec. 11; 321 ft SE. and 4.7 ft lower than the centerline of the Y-rd. SE.; 24 ft N. and 18 ft W. of the centerline of the road at the field entrance N. on top and at the W. end of the round culvert; a chiseled square

590.38

- 19 5.6 UE 1 B, 1.6 mi N. and W. along road from the tablet; T. 74 N., R. 4 W., near the E. sixteenth cor. between the NE $\frac{1}{4}$ and the SE $\frac{1}{4}$ of sec. 2, 300 ft S. centerline of road; at curve to the W., 9 ft N., 27 ft E. and 1.6 ft lower than the centerline of the N.-S. road at the field entrance E., on top and at the N. end of the round concrete culvert; a chiseled square

580.70

- 23 7.2 UE 1 C, 3.1 mi N. and W. along road from the tablet; T. 74 N., R. 4 W., near the cor. of secs. 2, 3, 10 and 11; 27 ft S., 27 ft E. and 2.3 ft lower than the centerline of the E.-W. road at drive N. on top and at the E. end of the round concrete culvert; a chiseled square

694.20

- 26 8.4 Reference mark, 75 ft SE. of the tablet; 18 ft S. and 33 ft W. of the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square

716.28

- 27 8.4 EM, Columbus City, 1.5 mi S. and 2.7 mi E. of; T. 74 N., R. 4 W., near the E. sixteenth cor. between secs. 4 and 9, 34 ft N.; 82 ft W. and 0.6 ft higher than the centerline of the crossroads, 2 ft NW. of the cor. fence post; 2 ft W. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "2 DDB 1976"

716.974

- 29 9.6 UE 2 A, 1.2 mi W. along the road from the tablet; T. 74 N., R. 4 W., near the quarter cor. between secs. 5 and 8; 91 ft S., 55 ft E. and 0.4 ft lower than the centerline of the crossroads; on the third concrete step from the bottom and at the SE. cor. of, a chiseled square

699.18

- 31 10.3 UE 2 B, 1.9 mi W. along the road from the tablet; T. 74 N., R. 4 W., near the cor. of secs. 5, 6, 7 and 8; 198 ft S., 23 ft E. and 6.5 ft lower than the centerline of the T-rd. W., on top and at the S. end of the round metal culvert; a punched hole

687.04

- 35 11.3 EM, Columbus City; 1.5 mi S. of; T. 74 N., R. 4 W., in the SW. cor. of sec. 6, 34 ft N., 72 ft E. and 0.2 ft lower than the centerline of the T-rd. E., 11 ft E. of the E. gate post, 1 ft S. of the N. right-of-way fence, 1 ft S. of the witness post, set inside of a 6-in. drain tile, a standard tablet stamped "3 DDB 1976"

707.183

WINFIELD QUAD. - 46

FEET

LINE 1 (Cont'd)

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|----|------|--------------------|---|---------|
| 1 | 36 | 11.6 | Reference mark, 190 ft SW. of the tablet; 132 ft S. and 24 ft W. of the centerline of the T-rd. E., on top and at the N. end of the round concrete culvert; a chiseled square | 702.23 |
| 38 | 12.4 | UE 3 A, | 1 mi N. along road from the tablet, T. 74 and 75 N., R. 4 and 5 W., near the cor. of secs. 1, 6, 31 and 36, 10 ft N., 33 ft W. and 0.1 ft higher than the centerline of the N.-S. road at the field road W., 2 ft N. of the N. gate post; 1 ft E. of the W. right-of-way fence, on top of a copper rod projecting 0.5 ft above the ground | 724.41 |
| 41 | 13.1 | UE 3 B, | 1.8 mi N. and W. along road from the tablet; T. 74 and 75 N., R. 5 W., near the quarter cor. between secs. 1 and 36, at the junction of county routes G 52 and X 17, 3 ft S., 39 ft E. and 5.9 ft lower than the centerline of the T-rd. on top and at the N. end of the round concrete culvert; a chiseled square | 729.60 |
| 43 | 14.4 | Reference mark, | 112 ft NE. of the tablet; 34 ft N., 115 ft E. of the centerline of E.-W. road at private drive N. on top and at the W. end of the round concrete culvert; a chiseled square | 692.22 |
| 44 | 14.4 | EM, Columbus City, | 1 mi S. and 0.5 mi W. of; T. 74 and 75 N., R. 5 W., near the W. sixteenth cor. between secs. 2 and 35, 43 ft S., 34 ft E. and 1.7 ft lower than the centerline of the E.-W. road at the private drive N.; 10 ft E. of the E. gate post; 1 ft N. of the S. right-of-way fence, 1 ft N. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "4 DDB 1976" | 694.173 |
| 46 | 15.0 | UE 4 A, | 0.5 mi W. along county route G 52 from the tablet; T. 74 and 75 N., R. 5 W., near the quarter cor. between secs. 3 and 34, 34 ft S., 36 ft E. and 4.9 ft lower than the centerline of the T-rd. N., on top and at the W. end of the round metal culvert; a punched hole | 703.35 |
| 49 | 15.6 | UE 4 B, | 1.1 mi W. along county Route G -52, from the tablet, T. 74 and 75 N., R. 5 W., 660 ft E. of the cor. of secs. 3, 4, 33 and 34, 10 ft N., 90 ft W. and 0.1 ft lower than the centerline of the iron and concrete bridge over "Long Creek" at the SE. cor. of the NW. wingwall, a chiseled square | 638.06 |
| 52 | 16.8 | UE 4 C, | 2.3 mi W. along county route G 52 from the tablet; T. 74 and 75 N., R. 5 W., near the cor. of secs. 4, 5, 32 and 33, 33 ft S., 54 ft E. and 3.1 ft lower than the centerline of the T-rd. S.; on top and at the W. end of the round concrete culvert; a chiseled square | 712.54 |
| 55 | 17.8 | EM, Columbus City, | 0.5 mi S. and 4.6 mi W. of; 2.5 mi N. and 3.8 mi E. of Crawfordsville, T. 74 and 75 N., R. 5 W., near the cor. of secs. 5, 6, 31 and 32, 71 ft N., 66 ft W. and 3.7 ft lower than the centerline of the crossroads; 1 ft SE. of the NW. right-of-way fence, 1 ft SE. of the witness post, set inside of a 6-in. drain tile, a standard tablet stamped "5 DDB 1976" | 724.188 |
| 56 | 17.8 | Reference mark, | 167 ft WSW. of the tablet, 33 ft N. and 225 ft W. centerline of the crossroads, on top and at the N. end of the round concrete culvert; a chiseled square | 722.92 |
| 57 | 18.8 | UE 5 A, | 1 mi W. along county route G 52, from the tablet; T. 74 and 75 N., R. 5 and 6 W.; at the cor. of secs. 1, 6, 31 and 36, at the centerline of the crossroads, a chiseled square in the concrete hwy. | 736.05 |
| 58 | 19.5 | UE 5 B, | 1.7 mi NW. along county route G 52 from the tablet; T. 75 N., R. 6 W.; about 0.2 mi NE. of the quarter cor. between secs. 1 and 36, 39 ft NE.; 21 ft NW. and 2.8 ft lower than the centerline of the hwy. at the private drive NE. on top and at the NW. end of the round metal culvert; a punched hole | 718.79 |

LINE 1 (Cont'd)

WASHINGTON QUAD. - 69

FEET

- 1 61 20.5 BM, Crawfordsville, 2.7 mi N. and 1.2 mi E. of; T. 75 N., R. 6 W., about 0.2 mi N. of the quarter cor. between secs. 2 and 35; 84 ft N., 24 ft E. and 3.3 ft lower than the centerline of the crossroads; 1 ft W. of the N. gate post; 1 ft W. of the E. right-of-way fence and 1 ft W. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "6 DDB 1976" 735.974

LINE 2

D.D. Bolin, 1976; Book CV-3332

WINGFIELD QUAD. - 46

- 2 48 0.0 BM, At Morning Sun, Louisa County, on State Hwy. 78, at the grade schoolyard, 132 ft NW. of the NW. cor. of the building, 10 ft E. of the sidewalk, and directly E. of a right-angle turn in the hwy., a State Survey standard USC&GS disk stamped "58-32" and set in the top of a concrete post flush with the ground 745.543
- 51 1.1 UE 58-32 A, 1.1 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., in the NW. cor. of sec. 6, 33 ft S., 59 ft E. and 3 ft lower than the centerline of the crossroads, on top and at the E. end of the round metal culvert; a punched hole 764.96
- 53 2.2 UE 58-32 B, 2.2 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., near the cor. of secs. 1, 6, 7 and 12, 158 ft S., 18 ft W. and 8.5 ft lower than the centerline of the crossroads; on top and at the S. end of the concrete headwall of the concrete box culvert; a chiseled square 751.73
- 55 3.2 Reference mark, 75 ft NE. of the tablet; 20 ft N., 52 ft E. of the crossroads; on top and at the N. end of the round concrete culvert; a chiseled square 774.21
- 56 3.2 BM, Morning Sun, 3.5 mi S. of; T. 72 N., R. 3 and 4 W., near the cor. of secs. 7, 12, 13 and 18; 83 ft S., 33 ft E. and 2.6 ft lower than the centerline of the crossroads; 1 ft W. of the E. right-of-way fence, 1 ft W. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "11 DDB 1976" 774.127
- 59 4.7 UE 11 A, 1.5 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., near the quarter cor. between secs. 19 and 24; 72 ft S., 2 ft E. and 1 ft lower than the centerline of the crossroads; 15 ft S., 10 ft E. of the RR. crossing, 3 ft S. of the S. rail; on top and at the S. end of the round steel culvert; a chiseled cross 774.39

WAPELLO QUAD. - 45 IA. - 216 ILL.

- 62 5.7 UE 11 B, 1.5 mi S. and 1 mi E. along road from the tablet; T. 72 N., R. 3 and 4 W., near the quarter cor. between secs. 19 and 20; 33 ft S., 26 ft E. and 0.7 ft lower than the centerline of the crossroads; 9 ft N. and 18 ft E. centerline of the RR. crossing 7 ft N. of the N. rail; on top and at the round concrete culvert; a chiseled cross 771.08
- 64 7.2 BM, Mediapolis, 3.6 mi W. of junction of U.S. 61 and Co. "X" along road at crossroads of "X" and Co. "T", near SW. cor. sec. 29, T. 72 N., R. 3 W., 63 ft N. and 51 ft E. of intersection; 25 ft NE. of telephone pole, 20 ft W. of fence around cemetery; in concrete post projecting 6-in. standard tablet stamped "29 R&M 1963" 754.597

LINE 3

D.D. Bolin, 1976; Book CV-3332

MT. PLEASANT QUAD. - 26

- 7 23 4.5 BM, Mt. Pleasant, about 2 mi N. and 1.5 mi E. of; T. 72 N., R. 6 W., near the center of the SW $\frac{1}{4}$ of sec. 35, 33 ft S., 7 ft E. and 0.1 ft higher than the centerline of the iron and concrete bridge over South Big Creek; on top and 3 ft N. of the S. end of the E. concrete railing, a standard tablet stamped "29 DDB 1976" 674.404

LINE 3 (Cont'd)

MT. PLEASANT QUAD. - 26

FEET

- 7 24 4.5 Reference mark, 62 ft N. of the tablet; 31 ft N. and 13 ft E. of the centerline of the bridge on top of the NE. wingwall; a chiseled square 674.10

WINFIELD QUAD. - 46

- 26 5.7 UE 29 A, 1.3 mi N. and E. along road from the tablet; T. 72 N., R. 6 W., near the W. sixteenth cor. between the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of sec. 35, 15 ft N., 375 ft W. and 4.6 ft lower than the centerline of the T-rd. N. on top and at the N. end of the round metal culvert; a punched hole 713.15
- 31 7.1 UE 29 B, 2.7 mi N. and E. along road from the tablet; T. 72 N., R. 5 W., near the SW. cor. of sec. 30; 16 ft N., 479 ft E. and 1.1 ft lower than the centerline of the crossroads; on top and near the NW. end of the NW. concrete wingwall of the small iron and concrete bridge; a chiseled cross 683.46
- 36 8.6 UE 29 C, 0.75 mi N. and 1.8 mi E. along road from the tablet; 0.5 mi N. of triangulation station "CANAN", T. 72 N., R. 5 W., near the quarter cor. between secs. 29 and 32, 34 ft S., 33 ft W. and 1.6 ft lower than the centerline of the crossroads; 1 ft S. of the cor. fence post; on top of the drilled copper coated rod projecting 0.7 ft above the ground and painted white 723.73
- 38 9.7 UE, Canan A, 0.5 mi N. and 1 mi E. of; T. 72 N., R. 5 W., about 0.2 mi W. of the cor. of secs. 27, 28, 33 and 34, 521 ft E., 12 ft N. and 14.8 ft lower than the centerline of crossroads, on top and 5 ft E. of the W. end of the N. concrete headwall of the concrete box culvert; a chiseled square 702.33
- 41 11.1 UE, Canan B, 0.5 mi N. and 2.5 mi E. of the triangulation station, T. 72 N., R. 5 W., near the cor. of secs. 26, 27, 34 and 35, 18 ft N., 21 ft E., and 2.7 ft lower than the centerline of the crossroads; on top and at the N. end of the round metal culvert; a punched hole 722.04
- 44 12.3 Reference mark, 45 ft NE. of the tablet; 18 ft N. of the centerline of county hwy. H-38; on top and at the E. end of the N. concrete bridge railing, a chiseled square 725.00
- 45 12.3 EM, New London, 5 mi N. and 0.6 mi E. of; T. 72 N., R. 6 W., about 1200 ft E. of the cor. of secs. 25, 26, 35 and 36, 18 ft S. and 0.7 ft higher than the centerline of the bridge over a small creek; on top and at the center of the S. concrete bridge railing, a standard tablet stamped "30 DDB 1976" 724.939
- 47 13.1 UE 30 A, 0.8 mi E. along county route H-38, from the tablet; T. 72 N., R. 4 and 5 W., near the cor. of secs. 25, 30, 31 and 36, 30 ft S., 28 ft W., and 1.6 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete tube culvert; a chiseled square 742.48
- 49 14.1 UE 30 B, 1.8 mi E. along county route H-38, from the tablet, T. 72 N., R. 4 W., near cor. of secs. 29, 30, 31 and 32, 34 ft S., 31 ft W. and 2.6 ft lower than the centerline of the crossroads; on top and at the W. end of the round concrete tube type culvert; a chiseled square 783.68
- 53 15.9 EM, New London; about 5 mi N. and 4.2 mi E. of, about 2 mi S. of Yarmouth, T. 72 N., R. 4 W., near the quarter cor. between secs. 28 and 33; 84 ft S., 84 ft W. and 2 ft lower than the centerline of the crossroads, 1 ft SE. of the hwy. right-of-way marker; 1 ft E. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "31 DDB 1976" 801.424

FEET

LINE 3 (Cont'd)

WINFIELD QUAD. - 46

- 7 54 16.0 Reference mark, 104 ft ENE. of the tablet; 51 ft S. and 33 ft E. of the centerline of the crossroads; on top and at the E. end of the round concrete tube type culvert; a chiseled square 800.55
- 56 16.5 UE 31 A, 0.6 mi E. along county route H-38 from the tablet, T. 72 N., R. 4 W.; near the cor. of secs. 27, 28, 33 and 34; 39 ft S., 45 ft W. and 4 ft lower than the centerline of the T-rd. S.; on top and at the W. end of the round concrete tube type culvert; a chiseled square 776.77
- 60 17.0 UE 31 B, 1 mi E. along county route H-38 from the tablet; T. 72 N., R. 4 W., near the quarter cor. between secs. 27 and 34; 69 ft S., 36 ft E. and 0.7 ft lower than the centerline of the crossroads; 1 ft N. of the cor. fence post; on top of a drilled copper coated rod projecting 0.5 ft above the ground and painted white 774.54
- 62 18.0 UE 31 C, 2 mi E. along county route H-38 from the tablet, T. 72 N., R. 4 W., near the quarter cor. between secs. 26 and 36, 33 ft N., 42 ft W. and 4.4 ft lower than the centerline of crossroads on top and at the N. end of the round tube type concrete culvert; a chiseled square 762.85
- 65 18.6 BM, Yarmouth; 2 mi S. and 2.5 mi E. of; T. 72 N., R. 4 W., near the cor. of secs. 25, 26, 35 and 36; 63 ft S., 42 ft W. and 4.1 ft lower than the centerline of the crossroads; 10 ft NW. of the cor. fence post; 1 ft NW. of the SW. right-of-way fence; 1 ft NE. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "32 DDB 1976" 759.436
- 66 18.6 Reference mark, 105 ft N., 42 ft N., 33 ft W. of the centerline of the crossroads; on top and at the W. end of the round concrete tube type culvert; a chiseled square 760.10
- 68 19.6 UE 32 A, 1 mi N. along road from the tablet, T. 72 N., R. 4 W., near the cor. of secs. 23, 24, 25 and 26, 360 ft S., 19 ft W. and 7.8 ft lower than the centerline of the T-rd. W.; on top and at the W. end of the round concrete tube type culvert; a chiseled square 758.98
- 71 20.2 UE 32 B, 1.6 mi N. along road from the tablet, T. 72 N., R. 4 W.; near the quarter cor. between secs. 23 and 24; 27 ft S., 30 ft E. and 0.3 ft higher than the centerline of the T-rd. E.; on top and at the center of the S. concrete headwall of the concrete box culvert; a chiseled square 759.30
- 72 21.2 UE 11 A, 1.5 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., near the quarter cor. between secs. 19 and 24; 72 ft S., 20 ft E. and 1.6 ft lower than the centerline of the crossroads; 15 ft S., 10 ft E. of the RR. crossing, 3 ft S. of the S. rail; on top and at the S. end of the round steel culvert; a chiseled cross 774.395

LINE 4

D.D. Bolin, 1976; Book CV-3332

WINFIELD QUAD. - 25

- 7 73 0.0 UE 29 C, 0.75 mi N. and 1.8 mi E. along road from the tablet, 0.5 mi N. of triangulation station CANAN, T. 72 N., R. 5 W., near $\frac{1}{4}$ cor. between secs. 29 and 32, 34 ft S., 33 ft W. and 1.6 ft lower than the centerline of the crossroads; 1 ft S. of the cor. fence post; on top of the drilled copper coated rod projecting 0.7 ft above the ground and painted white 723.73

NEW LONDON QUAD. - 25

- 73 0.7 Triangulation station, is located airline, about 6 mi NW. of New London and about 5 mi NE. of Mt. Pleasant along the E. side of a graveled farm road and in a grove of trees. The station is a standard disk stamped "CANAN 1955" set in top of a 12-in. square concrete monument which is about 1 ft below the surface of the ground. It is about 100 ft W. of the W. side of the farm home of Mr. David Brewer, 100 ft N. of the centerline of the entrance road to the farm, 99 ft E. of the centerline of the farm road and 21 ft E. of a white witness post 723.450

LINE 4 (Cont'd)

NEW LONDON QUAD. - 25

FEET

- 7 74 0.7 Reference mark No. 1 is a standard disk stamped "CANAN NO. 1 1955" set in top of a 10-in. square concrete monument which projects about 2-in. above the ground and is about the same elevation as the station. It is 25 ft S. of the centerline of the entrance road to the farm, 4 ft W. of a telephone pole and 1.5 ft N. of the E.-W. fence line 724.231
- 75 0.7 Reference mark number two is a standard disk stamped "CANAN NO. 2 1955" set in top of a 10-in. square concrete monument which projects about 4-in. above the ground and is about the same elevation as the station. It is 33 ft W. of the centerline of a farm road and 1 ft E. of a N.-S. fence line 723.404

WINFIELD QUADRANGLE
46 IOWA

R E S E T

BM 1 DDB 1976 RESET 1987

BM; COLUMBUS CITY, 2.0 MI S. AND 5.15 MI E. OF; T. 74 N., R.
4 W., 226 FT. W. OF "T" IRON MARKING THE E. $\frac{1}{4}$ COR. OF SEC. 11,
AT A 223 FT. X 30 FT. CONCRETE SLAB BRIDGE, 1.0 FT ABOVE THE
BRIDGE FLOOR, 1.6 FT. W. OF THE SE. WING POST, SET IN THE TOP
OF THE E. END OF THE CONCRETE CURB, STD. TABLET STAMPED "1 DDB
1976 RESET 1987"

RESET ELEVATION 583.057 FT.

RESET BY LOUISA COUNTY ENGINEER, WAPELLO, IOWA