

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

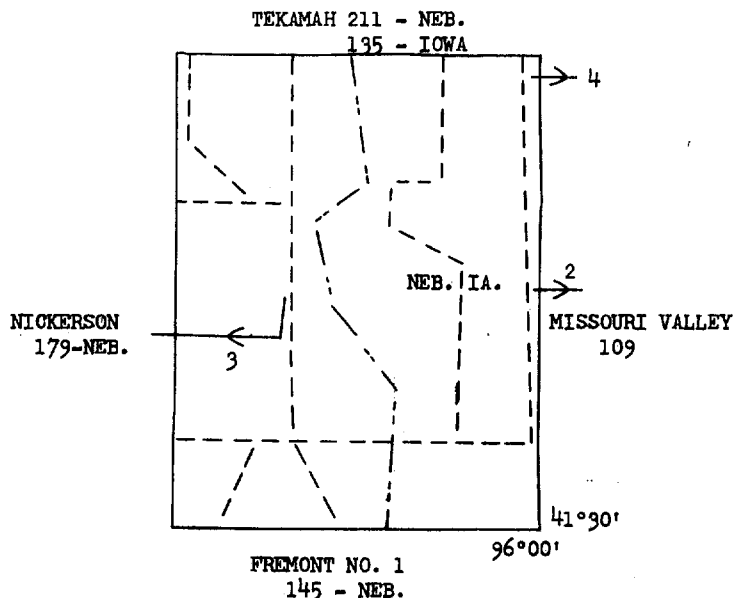
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BLAIR QUADRANGLE
178 - NEBRASKA
110 - IOWA
DIAGRAM NK 14-9
FREMONT, NEBRASKA

Washington and Burt Counties
Nebraska
Harrison County, Iowa

Edition of: 3-7-66

PR: AKH/cvb



USC&GS LEVELING
Quadrangle No. 410961

ISOLATED BENCH MARKS - NOT SHOWN ON DIAGRAM.

LINE 1

FEET

- T. 18 N., R. 11 E., near center sec. 13, SW. corner of T-rd. to S.; iron post stamped "PRIM TRAV STA NO 7 1120 1917" 1119.805
- Blair, at NW. corner of Washington County Courthouse, on W. face of corner stone 4 ft. above ground, center of period between letters A and D of lettering (Erected A.D. 1889) 1099.69
- T. 18 N., R. 11 E., about 0.1 mi E. of SW. cor. sec. 23, NW. corner of crossroads; iron post stamped "1960 1917" 1360.074

LINE 2

EAST NEAR CENTER OF EAST BORDER. (G.D. Soroggins, 1965, Book CV-1914 A)

BLAIR QUAD. 178 NEB.

- 1 2 0.0 Modale, 1.1 mi S. along State Hwy. No. 300 from the Modale Consolidated School, at the NE. point of a triangle formed by a "T" Rd. junction, 114.0 ft NE. of the center of the hwy., 43.2 ft W. of the W. rail of the Chicago and North Western RR. track, 32.0 ft S. of the center of the E.-W. rd., 23.0 ft E. of the center of the N.-S. rd., 1.6 ft N. of a reference post, set in top of a concrete post projecting 0.3 ft above the ground. A USC&GS standard disk stamped "B 136 1948" 1011.428

110C

BLAIR QUADRANGLE
178 - NEBRASKA
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LINE 2 (Cont'd)

FEET

BLAIR QUAD. - 178

- 1 4 1.9 UE A, about 1.9 mi E. along State Rd. across from tablet, T. 79 N., R. 44 W.; near cor. of secs. 29, 30, 31, 32; 40 ft N., 34 ft W. and 1.9 ft lower than rd. at field entrance SW.; at base of powerline pole, at N. side, head of rail spike; painted UE A 1011.3 1011.31

MISSOURI VALLEY - 109

- 5 2.4 UE B, near quarter corner between secs. 29 and 32, T. 79 N., R. 44 W.; 33 ft S., 16 ft W. and 1.7 ft lower than T-rd. S., on top of W. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE B 1009.9" 1010.0
- 6 2.9 UE C, near corner of secs. 28, 29 32 and 33, T. 79 N., R. 44 W., 15 ft S., 24 ft E. and 1.1 ft lower than crossroads; on top of S. end of a 36-in. corrugated metal culvert, a punched hole; painted "UE C 1010.5" 1010.6
- 7 3.9 UE D, near corner of secs. 27, 28, 33 and 34, T. 79 N., R. 44 W., at center of T-rd. N., a painted square; painted "UE D 1012.6" 1012.6

LINE 3

WEST THROUGH CENTER OF QUADRANGLE. (J.H. Betz, 1965; Book CV-1916)

BLAIR QUAD. 178 NEB. 110 IA.

- 1 4 0.0 Herman, 0.9 mi SE. along U.S. Hwy. No. 73 from the post office, thence 3.2 mi E., 1.5 mi S. and 0.5 mi E. along a gravel rd.; on the outside of a sharp turn to the S., 65.5 ft NW. of and across the rd. from a guy wire braced power line pole, 34.0 ft S. of a fence corner post which is in line with the center of the E.-W. section of the rd., 26.0 ft E. of the center of the N.-S. section of the rd., 2.0 ft N. of a reference post, 1.0 ft W. of the E. right-of-way fence, set in a concrete post about 2.0 ft below the rd. and projecting 0.2 ft. USG&GS standard disk stamped "Y 244 1947" 1016.015
- 6 1.5 UE V 244 A, about 0.5 mi W. of disk; 9.0 ft S. and 42 ft E. of crossroads; on the SE. curbing of a small bridge; a chiseled square; painted 1014.4 1014.36
- 7 2.0 UE W 244 B, about 1.0 mi W. of disk, 26 ft N. and 13 ft E. and 1.4 ft lower than T-rd. N.; on the SE. end of a small bridge; on the E. end of a steel "I" beam; a chiseled square; painted 1014.5 1014.50
- 8 3.0 UE W 244 C, about 2.0 mi W. of disk on steel truss bridge over "Peterson Ditch", on the NW. girder support, a chiseled square; painted 1015.6 1015.62
- 10 4.2 Reference mark, 154 ft S. of tablet; 38 ft S. and 16 ft E. of T-rd. E., on a small concrete bridge under U.S. Hwy. 73; on the SE. curbing; a chiseled square 1086.22
- 11 4.2 Herman; 4.0 mi S. and 1.0 mi E. of; Twp. 19 N., R. 11 E., near 400r. between secs. 16 and 17 64.5 ft N. and 14.3 ft E. of, and same elevation as T-rd. E., on the SE. concrete floor of a 5 by 10 ft box culvert, 1.5 ft N. and 1.5 ft W. of the SE. cor. of the concrete culvert floor and same elevation as center-line hwy., a standard tablet stamped "33 JHB 1965"; painted 1084.9 1084.929
- 12 4.8 UE 33 A, about 0.6 mi S. along U.S. hwy. 73 from tablet; at intersection with graveled rd. to NW. in centerline of hwy. 73; a chiseled square 1121.00
- 13 5.3 UE 33 B, about 0.6 mi S. and 0.5 mi W. of tablet, 74 ft NW. of center of rd. curve, in a fence corner, 0.5 ft N. and 0.5 ft E. of cor. post, a small brass cap stamped "U.S. 320"; painted 1271.0 1271.00

LINE 3 (Cont'd)

FEET

BLAIR 178 Neb. - 110 IA.

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| 1 14 5.6 | Reference mark FOLLEN NO. 1 (Azimuth Mark) is approximately 0.5 mi E.-SE. of the station, 29 ft N. of the center of the rd., and 2.0 ft W.-NW. of a witness post. The disk is stamped FOLLEN NO 1 1934 and projects 4-in. | 1278.747 |
| 15 6.1 | Reference mark No. 3 is 124.63 ft W.-SW. of the station, 47 ft N. of the centerline of the rd., 19 ft N. of a fence corner, and 18 ft W. of the centerline of the lane. The disk is stamped FOLLEN NO 3 1934 and projects 4-in. | 1330.617 |
| 16 6.1 | Reference Mark No. 4 is 139.77 ft W.-NW. of the station, and 75 ft E.-NE. of a power pole. The disk is stamped FOLLEN NO 4 1934 and projects 4-in. | 1331.559 |
| 17 6.1 | USC&GS Tringulation Station FOLLEN 1930. The station is a standard station disk in concrete projecting about 3-in. above the ground. Located in sec. 17, T. 19 N., R. 11 E., on land owned by Peter Follen and occupied by George Follen, in scattered grove of trees on top of flat-topped hill overlooking Missouri Valley to the E., 115 ft E. of the W. row of trees in the grove and 38 ft N. of wire fence on N. side of drive leading to Follen buildings. | 1332.444 |
| 18 6.1 | Reference Mark FOLLEN NO. 5 is 63.48 ft SE. of the station, 16 ft S. of the centerline of the lane, and 2.0 ft W. of a telephone pole. The disk is stamped FOLLEN NO 5 1947 and projects 4-in. | 1333.389 |
| 20 7.1 | UE, Reference mark FOLLEN NO 5A, about 1.0 mi W. along rd. from disk; 43 ft S. and 57 ft W. of centerline 4.2 ft lower than T-rd. S. in a power pole; a RR. spike; painted 1149.7 | 1149.70 |
| 21 7.6 | UE, Reference mark FOLLEN 5 B, about 0.5 mi NW. along rd. from UE 5 A at a small abandoned schoolhouse; on the topmost front step; a chiseled square | 1104.92 |
| 22 8.1 | UE Reference mark FOLLEN 5 C, about 0.31 mi N. and 0.2 mi W. of UE 5 B, on the N. headwall of large concrete box culvert; a chiseled square | 1117.11 |
| 23 8.7 | UE Reference mark FOLLEN 5 D, about .63 mi W. along rd. from UE 5 C, on the W. concrete railing of a large concrete box culvert; a chiseled square painted; 1118.4 | 1118.42 |

NICKERSON - 179 NEB.

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| 25 9.7 | Reference mark, 148 ft N. and 73 ft E. of tablet; on the bottom step of small white schoolhouse; a chiseled square; not painted | 1155.47 |
| 26 9.7 | Spiker; 0.5 mi N. and 2.0 mi E. of; T. 19 N., R. 10 E., near cor. between secs. 14 and 15; 18 ft N., and 36 ft E. of and 2.5 ft lower than T-rd. N., set in the top of the N. end of a concrete catch basin headwall; a standard USC&GS tablet stamped "34 JHB 1965" | 1148.106 |
| 27 10.8 | UE 34 A, about 1.1 mi W. along graveled rd. from tablet on the center of the N. curbing of steel truss bridge over "New York Creek"; a chiseled square; painted 1159.0 | 1158.98 |

LINE 4

EAST IN NORTHEAST PORTION OF QUADRANGLE. (J.H. Betz, 1965; Book CV-1916)

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BLAIR QUADRANGLE
178 - NEBRASKA
110- IOWA

LINE 4 (Cont'd)FEETBLAIR 178 NEB. - 110 IA.

- 1 32 0.0 Modamin, 2.9 mi N. along the Chicago and North Western RR. from the station, 3.7 mi S. along the Chicago and North Western RR. from the station at River Sioux, set in the top of the W. end of the N. abutment of RR. bridge 520 over the Soldier River, 66.0 ft E. of the centerline of U.S. Hwy. 75 (measured from the center of the N. end of a hwy. bridge,) 8.0 ft W. of the 5.0 ft lower than the W. rail, 1.6 ft E. of the W. end of the N. abutment. A USC&GS standard disk stamped "Z 129 1948" 1032.983
- 32 0.8 UE Z 129 A, about 0.8 mi S. along U.S. Hwy. 75 from disk; on the SE. wing-wall of concrete bridge; a metal rivet; painted 1027.5 1027.55
- 33 2.1 UE Z 129 B, about 0.8 mi S., 1.0 mi E., 0.25 mi N. of disk; at a T-rd. E.; a RR. spike set flush with bituminous pavement; painted "1027.0" 1027.01

MISSOURI VALLEY QUAD - 109 IA.

- 34 3.3 UE Z 129 C, about 0.8 mi S. along hwy. 75, thence 1.0 mi E., thence 0.25 mi N., thence 0.5 mi E. thence 0.25 mi N., thence 0.5 mi E., along graveled rds., to a cut ditch and a dim T-rd. S., on the N. end of a 36-in. concrete culvert; a chiseled square; painted "1023.7" 1023.72
- 35 4.2 Reference mark No. 1, 570 ft N. of tablet, in the center of T-rd. W. a RR. spike set flush with the pavement of hwy. 183 1045.35
- 36 4.3 Mondamin, 2.5 mi N. and 2.5 mi E. of; T. 80 N., R. 44 W., near $\frac{1}{4}$ cor. between secs. 9 and 16; 570 ft S. and 21 ft E. of; and 9.4 ft higher than T-rd. W. set in the headwall of a concrete culvert under hwy. 183; a standard tablet stamped "1 JHB 1965"; painted "1054.7" 1054.780