

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Final adjustment of 1976

Marshall and Jasper Counties

Edition of: 4/8/76

PR: ADP/lcb/HM

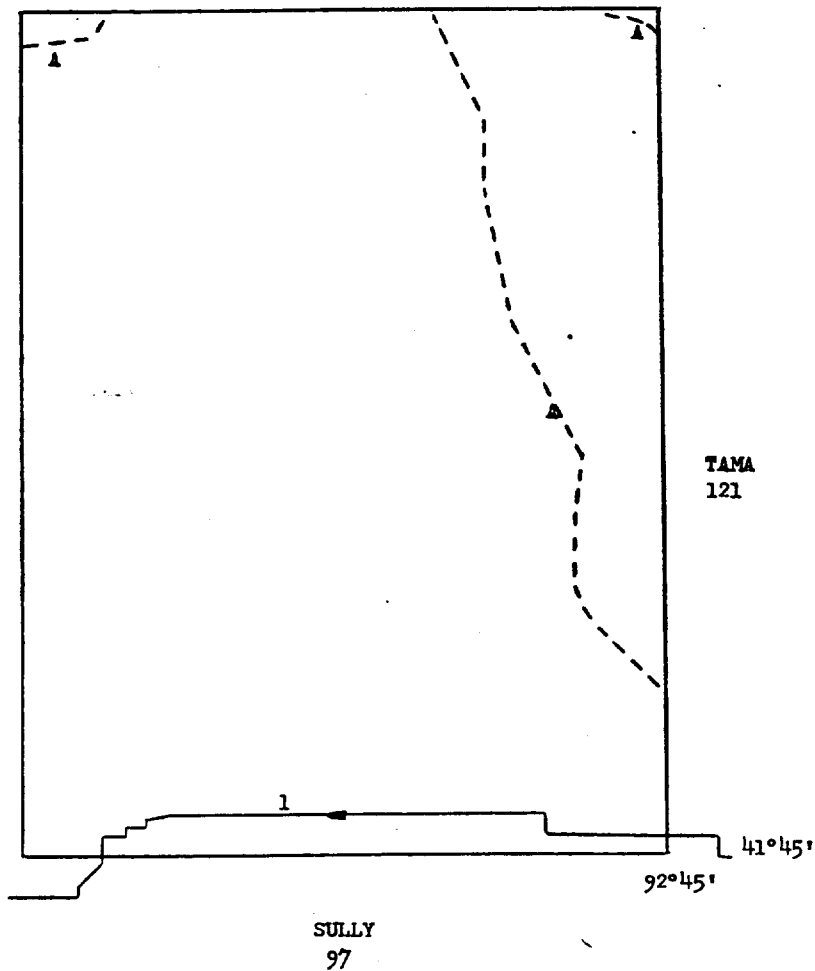
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

41-092-44
FERGUSON QUADRANGLE
122 - IOWA
N4145-W9245/15
DIAGRAM NK 15-8
DES MOINES

MARSHALLTOWN
147

RHODES
123

TAMA
121



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

Quadrangle No. 410924

122 D

LINE 1

FEET

C.D. Lien, 1975; Book CV-3242

MONTEZUMA QUAD. - 96

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|---|-----|--|--|----------|
| 2 | 2 | 0.0 | BM, at Grinnell, Poweshiek County, at Grinnell College at the front entrance to Goodnow Hall building, in the NE. corner of the limestone porch floor, a standard disk stamped "Z 87 1934" | 1025.077 |
| 2 | 0.7 | UE 87 A, 0.7 mi NW. of tablet, T. 80 N., R. 16 W., near the quarter corner between secs. 8 and 9, at the junction of Hwy. 146 and 11th Avenue in Grinnell, a copper nail and washer in centerline of crossroads | 1019.4 | |
| 5 | 1.7 | UE 87 B, 0.7 mi NW. and 1 mi W. along road from tablet, T. 80 N., R. 16 W., near the quarter corner between secs. 7 and 8, 48 ft S. 33 ft W. and 1.3 ft lower than crossroads, 5 ft N. of the centerline of a wire gate and 8 ft S. of the NE. corner of a wire mesh fence around a natural gas pumping station, a chiseled square on a concrete footing | 1021.94 | |

FERGUSON QUAD. - 122

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|----|-----|---|---------|
| 7 | 2.7 | UE 87 C, 0.7 mi NW. and 2 mi W. along road from tablet, T. 80 N., R. 16 and 17 W., near the quarter corner between secs. 7 and 12, 52.5 ft N. and 52.5 ft E. of and 0.9 ft lower than centerline of road at a T-rd. N. and 0.4 ft SW. of a right-of-way fence on top of a concrete right-of way marker which projects about 1 ft above ground | 991.17 |
| 9 | 3.1 | Reference mark, 27.7 ft S., 13.3 ft W. of centerline road at a field entrance S. and 7 ft N., 24 ft W. of tablet, a chiseled square on a large rock | 904.12 |
| 10 | 3.1 | Kellogg, 2.5 mi N., 6.7 mi E. of, T. 80 N., R. 17 W., near the E. sixteenth cor. of section 12, 34.7 ft S., 10.7 ft E. of centerline of road at a field entrance S., 1.2 ft N. of a fence line, 3 ft E. of a fence post and witness sign and 380 ft E. of centerline of a bridge over Sugar Creek set on top of a half inch copper coated steel rod which is enclosed by a 6-in. tile, a standard tablet stamped "8 CDL 1975" | 904.595 |
| 13 | 3.8 | UE 8 A, 0.7 mi W. along road from tablet, T. 80 N., R. 17 W., near the quarter cor. between secs. 11 and 12, a copper nail and washer centerline of crossroads | 1014.61 |
| 16 | 4.8 | UE 8 B, 1.2 mi W., 0.5 mi N. along rd. from tablet, T. 80 N., R. 17 W., near the quarter cor. between secs. 2 and 11, 253 ft W. of and 6 ft lower than centerline of road at curve S.-W., 28 ft S. of centerline of road, a punched hole in a metal culvert | 961.67 |
| 19 | 5.7 | Reference mark, 21 ft N., 9 ft E. of centerline of road at field entrance N., 132 ft E., 21 ft N. of centerline of bridge and 30 ft N., 144 ft E. of tablet, a punched hole in a metal culvert | 907.98 |
| 20 | 5.7 | Kellogg, 3 mi N., 4.6 mi E. of; T. 80 N., R. 17 W., near the quarter cor. between secs. 3 and 10, 12 ft S., 12 ft W. of and 0.9 ft higher than centerline of road at bridge 0.13 mi E. of crossroads, cemented in the SW. cor. of a headwall of bridge, a standard tablet stamped "9CDL 1975" | 911.879 |
| 24 | 6.8 | UE 9 A, 1.1 mi W. along road from tablet, T. 80 N., R. 17 W., near the quarter cor. between secs. 4 and 9, 17 ft S. of centerline of road and 239 ft E. of and 0.3 ft lower than centerline of road at T-rd. S., a chiseled square on a concrete culvert | 920.53 |

LINE 1 (Cont'd)

FERGUSON QUAD. - 122

FEET

2	26	7.2	Centerline of bridge (water on Rook Creek Lake 8.0 ft lower)	880.8
	28	8.4	UE 9 B, 2.7 mi W. along rd. from tablet, copper nail and washer in centerline of road at T-rd. N.	907.8
	31	9.2	Reference mark, 39 ft S., 26 ft W. of crossroads and 170 ft S., 82 ft W. of tablet, a punched hole in a metal culvert	965.63
	32	9.2	Kellogg, 3 mi N., 1.25 mi E. of; T. 80 N., R. 17 W., near the W. sixteenth corner between secs. 6 and 7, 131 ft N., 56 ft E. of and 3.1 ft higher than centerline of crossroads, 2 ft NW. of a fence corner and a witness sign, set on top of a half-inch copper coated steel rod, a standard tablet stamped "10 CDL 1975"	969.507
	34	10.5	UE 10 A, 1.3 mi W. along road from tablet, T. 80 N., R. 18 W., Sec. cor. 1, 2, 11 and 12, a copper nail and washer centerline of crossroads	961.0
	38	11.6	UE 10 B, 2.4 mi W. along road from tablet, T. 80 N., R. 18 W., near sec. cors. 2, 3, 10 and 11, 12 ft N., 45 ft E. of centerline of road at fence N., 12 ft N. and 1.3 ft lower than centerline road at drain and 492 ft W. of a T-rd. S., a chiseled square on a concrete headwall	906.04
	40	11.9	Reference mark, 24 ft S., 18 ft E. of centerline of road at a field entrance S., 24 ft S., 50 ft E. of centerline of bridge and 13 ft S., 82 ft E. of tablet, a punched hole in a metal culvert	867.37
	41	11.9	Kellogg, 3 mi N., 1.4 mi W. of; T. 80 N., R. 18 W., near the quarter cor. between secs. 3 and 10, 9 ft S., 32 ft W. of centerline of road at a field entrance S. and 9 ft S. of, and 1 ft higher than centerline of bridge, cemented in the center of the S. headwall of a concrete bridge, a standard tablet stamped "11 CDL 1975" (water 15.3 ft lower)	869.783
	45	13.2	UE 11 A, 1.3 mi W. along rd. from tablet, T. 80 N., R. 18 W., near the quarter cor. between secs. 4 and 9, 54 ft S., 27 ft W. of, same elevation as centerline rd. at T-Rd. E., 1.4 ft W. of a telephone pole and 1.3 ft E. of a right-of-way fence on top of a half-inch steel rod which project 0.3 ft above ground	903.99
	48	14.0	UE 11 B, 212 mi SW. along rd. from tablet, 26.2 ft N., 29.5 ft W. of, 1.5 ft lower than centerline of road at T-rd. W., a punched hole in a metal culvert	853.19

SULLY QUAD. - 97

51	15.1	Kellogg, 2 mi N., 3.5 mi W. of; T. 80 N., R. 18 W., near the quarter cor. between secs. 8 and 17, 26.2 ft S., 26.2 ft W. of and 1.6 ft lower than centerline of road at a drive S., 37 ft SW. of centerline of a wire gate and 0.5 mi S. of centerline of bridge over North Skunk River, set on top of a half-inch copper coated steel rod which is enclosed by a 6-in. tile, a standard tablet stamped "12 CDL 1975"	938.775
53	16.1	UE 12 A, 1 mi SW. along rd. from tablet, T. 80 N., R. 18 W. near the quarter cor. between secs. 17 and 18, 78 ft SE., 10 ft S. of and 0.4 ft lower than centerline of road at R.R. crossing and 86 ft NE. of a T.-rd. W., a chiseled square in the center of a concrete foundation for a signal light, (signal light removed)	966.19

NEWTON QUAD. - 98

56	17.2	UE, chiseled square on E. headwall of culvert, about 0.25 mi S. of R.R. crossing, about 1/8 mi S. of crossroads, 15 ft E. and 1.28 ft below center of road, chiseled square in E. headwall of small culvert	926.88
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