

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

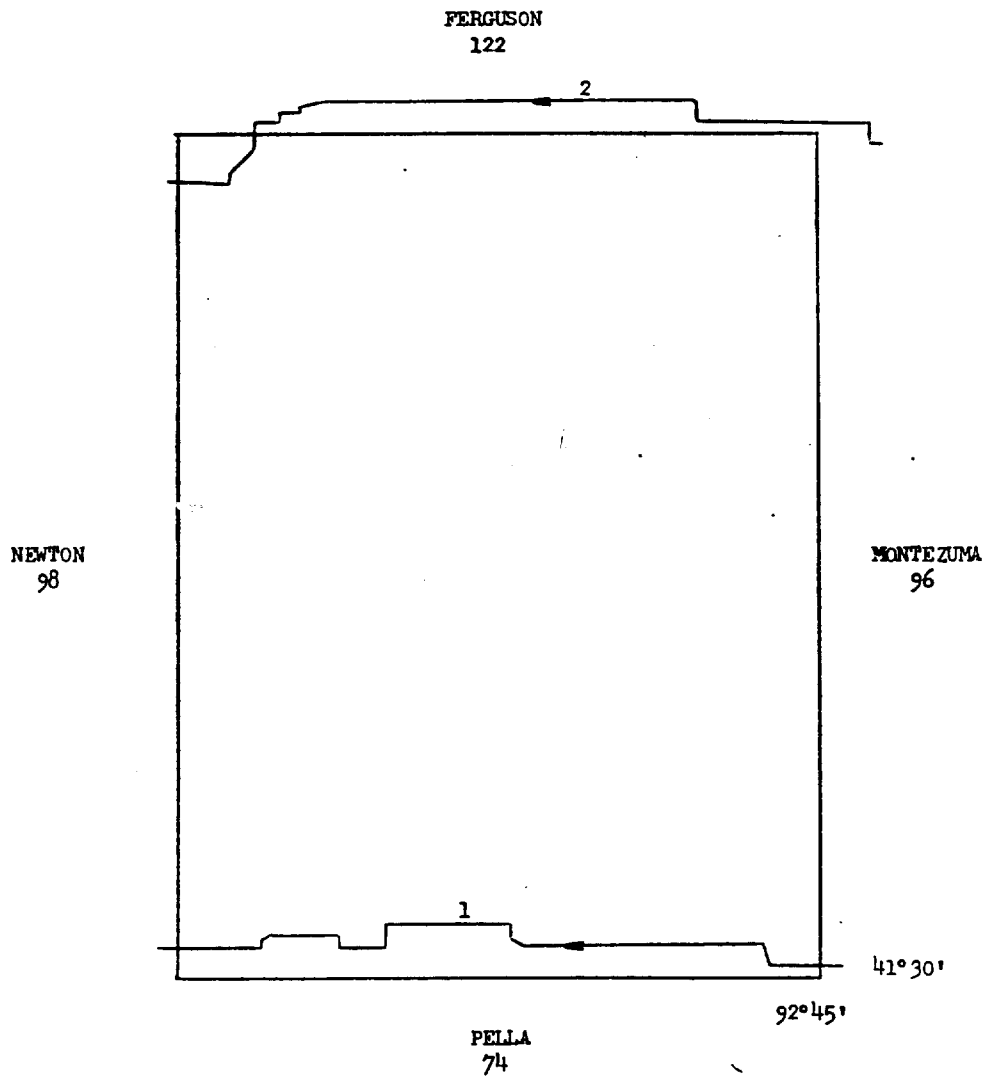
41-092-43
SULLY QUADRANGLE
97 - IOWA
N4130-W9245/15
DIAGRAM NK 15-8
DES MOINES

Final adjustment of 1976

Jasper, Marion, Mahaska Counties

Edition of: 4/8/76

PR: ADP/lcb



97D

LINE 1

FEET

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

MONTEZUMA QUAD. - 96

1 19 5.8 Sully, 5.5 mi S., 5.5 mi E. of, T. 77 N., R. 16 W., quarter cor. between secs. 5 and 6, 16.5 ft S., 291.9 ft W. of and 1.4 ft lower than centerline road at T-rd. S., cemented in the center of a concrete headwall, a standard tablet stamped, "2 CDL 1975" 866.124

SULLY QUAD. - 97

22 6.5 UE 2 A, 0.7 mi W. along road from tablet, T. 77 N., R. 16 W., near center of sec. 6, 26.2 ft N., 22.9 ft W. of and 1.7 ft lower than centerline road at T-rd. N., a chiseled square on a concrete culvert 892.95

25 7.5 UE 2 B, 2 mi W. along road from tablet, T. 77 N., R. 17 W., near the center of sec. 1, 23 ft S., 9 ft E. of and 2.2 ft lower than Y-rd., a chiseled square on a concrete culvert 874.92

27 8.1 Sully, 5 mi S., 3.75 mi E. of; Ts. 77 and 78 N., R. 17 W., near the W. sixteenth cor. between secs. 1 and 36, 22.7 ft N. of and 4.4 ft lower than centerline rd. at drain and Y-rd. and 117.2 ft NE. and 22.7 ft N. of a T-rd. N., cemented in the NW. cor. of a concrete headwall a standard tablet stamped "3 CDL 1975" 853.989

28 8.1 Reference mark, 19 ft S. and 4 ft E. of a T-rd. N. and 41.7 ft S. and 113 ft SW. of tablet, a punched hole in a metal culvert 855.53

30 8.9 UE 3 A, 0.78 mi W. along rd. from tablet, Ts. 77 and 78 N., R. 17 W., near the quarter cor. between secs. 2 and 35, 26.2 ft S., 29.5 ft W. of; 4.1 ft lower than centerline rd. at T-rd. S., a punched hole in a metal culvert 856.67

32 9.6 UE 3 B, 1.5 mi W. along rd. from tablet, Ts. 77 and 78 N., R. 17 W., near the E. sixteenth cor. between secs. 3 and 34, 29.5 ft N., 26.2 ft W. of and 1.2 ft lower than centerline rd., at T-rd. N., a punched hole in a metal culvert 854.56

35 10.4 Sully, 5 mi S., 1.5 mi E. of, Ts. 77 and 78 N., R. 17 W., near sec. cors. 3, 4, 33 and 34, 12 ft N. 20 ft W. of, 0.7 ft higher than centerline of bridge over Buckley Creek, cemented in the NW. corner of bridge, a standard tablet stamped "4 CDL 1975" 768.074

37 10.9 UE 4 A, 0.5 mi W. along rd. from tablet, Ts. 77 and 78 N., R. 17 W., near the quarter corner between secs. 4 and 33, 26.2 ft S. and 23 ft E. of, 1 ft lower than cross-roads, a punched hole in a metal culvert 825.89

40 12.1 UE 4 B, 1.7 mi W. along rd. from tablet, Ts. 77 and 78 N., R. 17 W., near the W. sixteenth cor. between secs. 5 and 32, 15 ft S. and 0.4 ft lower than centerline of road and 0.1 mi E. of a T-rd. N., a chiseled square on a concrete headwall 833.49

44 13.5 Sully, 5 mi S. and 1.5 mi W. of; Ts. 77 and 78 N., Rs. 17 and 18 W., near sec. cors. 1, 6, 31 and 36, 22 ft N. and 12 ft W. of, same elevation as centerline bridge and 159.3 ft S. of a T-rd. SE., cemented in the NW. cor. of a steel bridge over Elk Creek, a standard tablet stamped "5 CDL 1975" 744.909

45 13.5 Reference mark, 31.3 ft N., 9.3 ft W. of tablet, 43 ft N., 21 ft W. of centerline of bridge and 138 ft S., 24 ft W. of a T-rd. SE., a punched hole in a metal culvert 743.57

49 14.3 UE 5 A, 0.3 mi N. and 0.5 mi W. along rd. from tablet, T. 78 N., R. 18 W., near the center of sec. 36, 28.7 ft N. of, and 4.1 ft lower than centerline of road at T-rd. S. and 28.7 ft N., 15 ft W. of centerline road at a field entrance N., a chiseled square on a concrete culvert 751.90

LINE 1 (Cont'd)

SULLY QUAD. - 97

FEET

- 1 51 14.8 UE 5 B, 0.3 mi N., 1 mi W. along road from tablet, T. 78 N., R. 18 W., near the quarter cor. between secs. 35 and 36, 12 ft N., 29 ft W. of centerline rd. at T-rd. N., 12 ft N. and 0.6 ft lower than centerline rd. over drain, a chiseled square in the center of a headwall for a 12 ft concrete box culvert 739.68
- 54 15.8 UE 5 C, 0.3 mi N., 2 mi W. along rd. from tablet, T. 78 N., R. 18 W. near the quarter corner between secs. 34 and 35, 14 ft N. of, 0.1 ft higher than centerline of road at drain and 12 ft N., 30 ft E. of centerline of road at a field entrance S., a chiseled cross in the center of a headwall for a 12 ft concrete box culvert 741.74
- 58 16.9 Sully, 5 mi S., 4 mi W. of; T. 77 N., R. 18 W., near the quarter corner between secs. 3 and 34, 15 ft N., 9 ft E. of and 0.8 ft higher than centerline of bridge, 541.2 ft S. of a T-rd. W., cemented in the NE. cor. of a concrete bridge, a standard tablet stamped "6 CLD 1975" 740.087
- 59 17.0 Reference mark, 19 ft N., 50 ft W. of a T-rd. W. and 560 ft N., 59 ft W. of tablet, a chiseled cross on a concrete culvert 735.23
- 63 18.0 UE 6 A, 1.1 mi W. along rd. from tablet, Ts. 77 and 78 N., R. 18 W., near the quarter cor. between secs. 4 and 33, 49.5 ft S., 26 ft E. of and 2.9 ft lower than centerline of road at curve and a field entrance S. a punched hole in a metal culvert 738.56
- 67 19.0 UE 6 B, 0.25 mi N., 1.75 mi W. along road from tablet, T. 78 N., R. 18 W., near the S. sixteenth cor. of sec. 32, 15.8 ft N., 59 ft E. of and 1.9 ft lower than centerline rd. at N. and S. fence lines, a punched hole in a metal culvert 741.38
- 69 19.7 Reference mark, 118 ft W. and 9.8 ft S. of centerline of bridge, 9.8 ft S. of the W. end of bridge on top of a bolt in the SW. cor. of an old steel bridge 748.69
- 70 19.7 Sully, 4.75 mi S., 6.5 mi W. of; T. 78 N., R. 18 W., near the S. sixteenth cor. between secs. 31 and 32, at an old steel bridge over Skunk River, 21 ft N. and 118 ft W. of, and 6.5 ft lower than centerline of bridge, 21 ft N. of the W. end of bridge and 12 ft W. of the W. bank of river, set on top of a half inch copper coated steel rod which is enclosed by a 6 inch tile, a standard tablet stamped "7 CDL 1975" 741.930
- 72 20.1 UE 7 A, 0.35 mi SW. along road from tablet, Ts. 77 and 78 N., R. 18 W., near sec. cors. 5, 6, 31 and 32, 26 ft S., 20 ft W. of and 3.5 ft lower than centerline of road at a T-rd. W., a punched hole in a metal culvert 739.02
- 74 21.0 UE 7 B, 0.35 mi SW., 0.9 mi W. along road from tablet, Ts. 77 and 78 N., Rs. 18 and 19 W., near sec. cors. 1, 6, 31 and 36, 36 ft N., 17 ft W. of and 2.3 ft lower than crossroads, a punched hole in a metal culvert 742.84

NEWTON QUAD. - 98

- 77 22.0 Sully, 5 mi S., 8.5 mi W. of; Ts. 77 and 78 N., R. 19 W., sec. cors. 1, 2, 35 and 36, 43.5 ft N., 13 ft W. of centerline of road at a T-rd. S. and 1.5 ft E. of a N.-S. right-of-way fence line, set on top of a 4-in. iron pipe which projects 1 ft above ground, a brass cap stamped "PTS 4 1908 Iowa" 766.837

LINE 2

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

MONTEZUMA QUAD. - 96

- 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

LINE 2 (Cont'd)

MONTEZUMA QUAD. - 96

FEET

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| 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 |
| <u>FERGUSON QUAD. - 122</u> | | | |
| 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 inch 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 "9 CDL 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 |
| 26 | 7.2 | Centerline of bridge (water on Rock Creek Lake -8.0 ft) | 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 |

LINE 2 (Cont'd)

FERGUSON QUAD. - 122

FEET

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| 2 | 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 projects 0.3 ft above ground | 903.99 | |
| 48 | 14.0 | UE 11 B, 2.2 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

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| 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 |
| <u>NEWTON QUAD. - 98</u> | | | |
| 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 |