

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final Adjustment of 1972

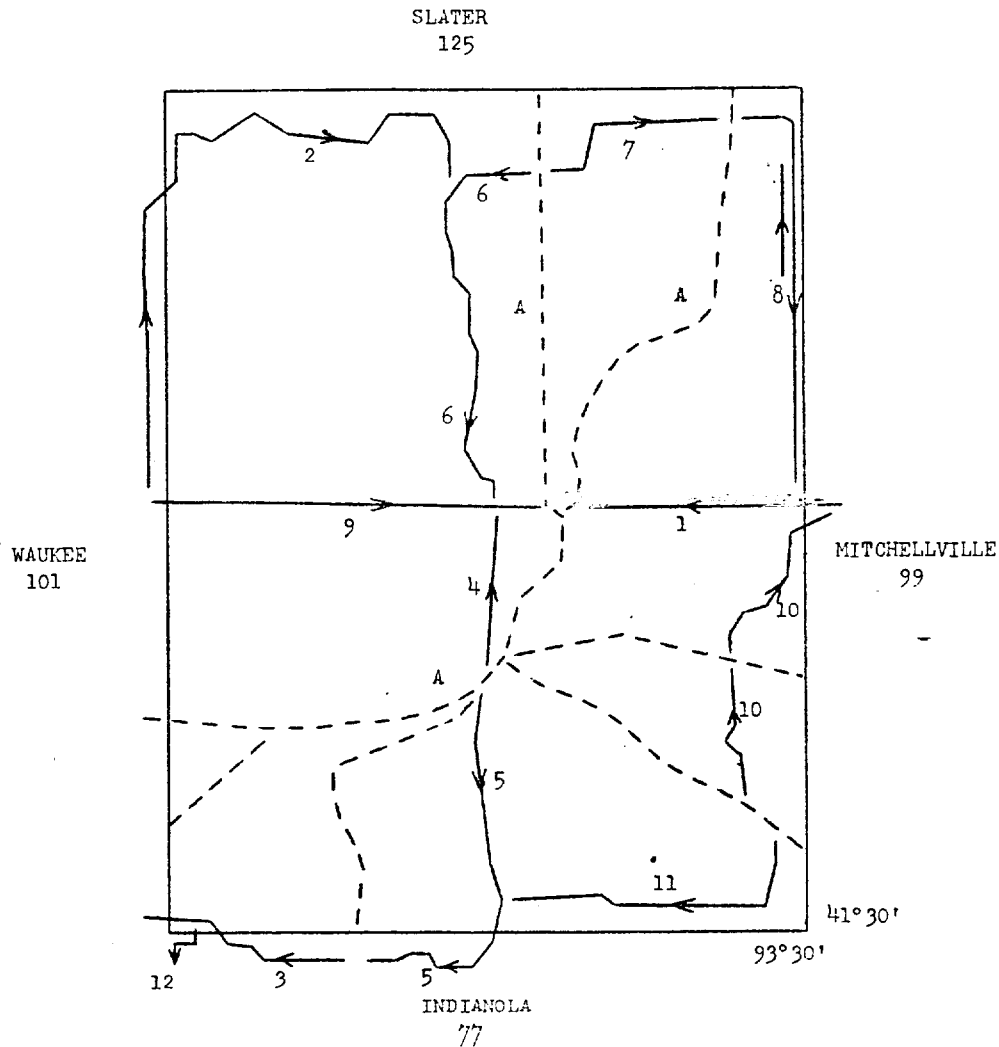
Polk and Warren Counties

Edition of: 3-14-72

PR: AKH/JF/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DES MOINES QUADRANGLE
100 - IOWA
N4130-W9330/15
DIAGRAM NK 15-8
DES MOINES



N.G.S. VERTICAL CONTROL DATA
Quadrangle No. 410934

100 C

LINE 1

FEET

W.M. Voight, 1956; Book CV-716

MITCHELLVILLE QUAD. - 99

- 0.0 About 4.0 mi W. along the Chicago, Rock Island and Pacific RR. from Altonna, Polk County, about 0.2 mi S. of signal 3496, at a rd. crossing, 87 ft S. of power transmission line pole 266, about 30 ft S. of the center of the rd., and 33 ft E. of the center of the track; a standard USC&GS disk stamped "869.831 Q 4 1930" 869.831

DES MOINES QUAD. - 100

- 1.2 Des Moines, junction of Hwys. 6, 64, 65 and 69, 5.0 mi E. of, 1.0 mi S. and 2.0 mi W. of Altoona, T. 79 N., R. 23 W., near cor. secs. 22, 23, 26 and 27, 307 ft N. and 31 ft W. of T-rd. W. (junction Oak Hill Rd. and Douglas Avenue), 6 ft N. and 1 ft E. of fence corner; in concrete post; a standard tablet stamped "TT 4 WM 1956 897" (Reported not found 1071, K.E.D.) 897.318
- 1.2 Reference mark, 427 ft S. and 60 ft E. of "TT 4 WM 1956", in power pole; rail spike 896.49
- 3.6 Des Moines, 3.1 mi N. and 3.9 mi E. of Polk County courthouse at; T. 79 N., R. 23 W., near cor. secs. 21, 22, 28 and 29; 270 ft E. of bridge over Four-Mile Creek; 26 ft N. and 25 ft W. of intersection of E. Douglas Ave. and E. 36th St., 10 ft W. of cor. fence post, 1 ft N. of fence; in concrete post; standard tablet stamped "1 WMV 1956 819" 819.386
- 3.6 Reference mark, 270 ft W. of tablet, 10 ft N. of center of Douglas Avenue, 1 ft N. of the NE. cor. of a bridge, in board walk; a copper nail and washer 821.13
- 4.6 UE, 1.0 mi W. of tablet, 17 ft N. and 16 ft E. of center of intersection of Douglas Avenue and E. 27th St., on E. end of concrete culvert under E. 27th St., chiseled square 902.92
- 5.3 UE, 1.7 mi W. of tablet, 75 ft S. and 20 ft E. of intersection of Douglas Ave. and Delaware Ave., in power pole, rail spike 846.45
- 5.7 About 2.9 mi N. along the C.R.I. & P. RR. from the junction at Des Moines, 80 ft N. of the center of U.S. Hwy. 6; 7 ft E. of the E. rail of Rock Island RR., on N. abutment of the RR. bridge, a standard USC&GS disk stamped "E 33 RESET 1959" 843.717
- 6.1 Iowa Geodetic Survey, BM 77-1273. Located within the city of Des Moines, on the N. side of Euclid Ave., in sec. 25; T. 79 N., R. 24 W., approximately 3 blocks E. of E. 14th St., on the NW. RR. approach, 6 ft W. of RR. rails, approximately 10 ft SE. of W. end of RR. culvert, approximately 13 ft N. of N. edge of brick paving on Euclid Ave., 36 ft SW. of SW. cor. of concrete base of signal box, 32 ft S. of SW. cor. of concrete base of signal post 2037, 6.30 ft W. of center of W. rail of RR., 13.40 ft N. of N. edge of brick in Euclid Ave.; Elev. by USGS 827.139

LINE 2

W.M. Voight, 1956; Book CV-716

WAUKEE QUAD. - 101

- 0.0 West Des Moines, about 2.0 mi W. of, along the Minneapolis and St. Louis RR., in SE¹/₄ sec. 8; T. 78 N., R. 25 W., 545 ft W. of center of N.-S. rd., 29 ft S. of the S. rail of the track, 50 ft N. of the right-of-way fence and 2 ft E. of a witness post; in a concrete post; a standard USC&GS disk stamped "F 4 1930" (Reported not found) 884.903
- 0.9 UE, 0.9 mi N. of disk, center of T-rd. S. (Ashworth Rd. at Bayes Rd.); chiseled square 974.36
- 1.2 UE, 0.9 mi N. and 0.3 mi W. of disk, center of Ashworth Rd. at private drive S., chiseled square 955.09

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LINE 2 (Cont'd)

WAUKEE QUAD. - 101

FEET

- 1.7 West Des Moines, about 1.0 mi N. and 3.0 mi W. of, near cor. secs. 5, 6, 7 and 8; T. 78 N., R. 25 W., 275 ft N. and 40 ft W. of crossroads, in NE. cor. of Pierce School yard; 98 ft NE. of NE. cor. of school, 3 ft S. and 3 ft W. of fence cor., in concrete post; standard tablet stamped "TT 6 LB 1956 947" 946.618
- 1.7 Reference mark, 230 ft S. of tablet, in SE. cor. of school yard, on NE. cor. of concrete well platform; chiseled square 950.13
- 2.2 UE, 0.5 mi N. of tablet, 35 ft W. of center of rd., in line with fence E., in telephone pole; RR. spike 975.49
- 2.8 UE, 1.1 mi N. of tablet, 33 ft S. and 18 ft W. of center of T-rd. S., on SW. end of concrete culvert near center of headwall; a chiseled square 940.71
- 3.7 UE, 2.0 mi N. and 0.2 mi W. of tablet, 45 ft N. and 12 ft E. of center of bridge, on E. curb rail about 8-in. above floor level; chiseled square 864.74
- 4.0 UE, 2.3 mi N. and 0.2 mi W. of tablet, center of U.S. Hwy. 6 and State Farm Rd., set in concrete pavement, U.S.G.L.O. marker (marker is a brass tablet) designating cor. secs. 28, 29, 32 and 33; T. 79 N., R. 25 W., (Elev. by USGS) 876.305
- 4.6 Grimes, 4.0 mi S. and 1.0 mi E. of, at N. edge of State Honor Farm property; near center sec. 28; T. 79 N., R. 25 W., 33 ft E. of center of State Farm Rd., 430 ft N. of a wooden bridge, 220 ft S. of drive W., 32 ft S. and 1 ft W. of fence cor., in concrete post; standard USC&GS and State Survey disk stamped "77 NO 152" (Elev. by USGS) 917.376
- 5.9 Grimes, 4.0 mi S. and 2.0 mi E. of; near W. edge of city limits of Urbandale; 455 ft N. of State Hwy. 132, 34 ft E. of center of rd. at T-rd. N., near cor. secs. 21, 22, 27 and 28; T. 79 N., R. 25 W., 170 ft N. of private drive E., 13 ft N. and 1 ft W. of a fence cor., in concrete post; standard tablet stamped "TT 5 LB 1956 965" (Reported disturbed) 964.510
- 7.9 Grimes, 2.0 mi S. and 2.0 mi E. of; 275 ft N. and 31 ft W. of crossroads, near cor. secs. 9, 10, 15 and 16; T. 79 N., R. 25 W., 1 ft E. of right-of-way fence, in concrete post; standard tablet stamped "TT 4 LB 1956 946" 945.709
- 10.0 UE, 2.1 mi N. of tablet, center of T-rd. S. (Rd. N. offset) set in concrete pavement, USGLO brass disk designating cor. secs. 3, 4, 33 and 34, Tps. 79 and 80 N., R. 25 W.; (Elev. by USGS) 942.610
- 10.5 Grimes, 2.5 mi E. of, at quarter cor. secs. 3 and 34; Tps. 79 and 80 N., R. 25 W., 24.7 ft N. of metal plug in center of pavement and in line with N.-S. fence, in concrete post; standard disk stamped "USC&GS and SS 77-159 1939"; (Elev. by USGS) 877.433
- 12.0 UE, 0.5 mi W., thence 1.0 mi N. from disk, 45 ft S. and 20 ft W. of center of T-rd. W., on W. headwall of concrete culvert; chiseled cross 885.68
- 12.5 UE, 0.5 mi W., thence 1.5 mi N. of disk, center of concrete bridge over drain E.; on floor of bridge; a chiseled square 858.23
- 13.3 Grimes, 2.0 mi N. and 2.0 mi E. of; about 1.0 mi W. of Herrold, 295 ft S. and 30 ft E. of T-rd. E., near SW. cor. sec. 22; T. 80 N., R. 25 W., 3 ft N. and 1 ft W. of a fence cor., in concrete post; standard tablet stamped "TT 3 LB 1956 841" 841.191
- 13.3 Reference mark, 160 ft N. and 55 ft W. of tablet, in telephone pole, RR. spike 841.24

<u>LINE 2 (Cont'd)</u>	<u>DES MOINES QUAD. - 100</u>	<u>FEET</u>
13.9 UE, 0.6 mi E. of tablet, 50 ft S. and 20 ft E. of center of rd. forks, in power pole on S. side of rd, rail spike		843.09
14.4 UE, 0.6 mi E., thence 0.5 mi N. from tablet, 12 ft E. of center of rd., on top and near center of E. guard rail of concrete bridge; 2 ft above level of rd., chiseled square		844.53
15.7 Polk City, 1.75 mi S. and 1.25 mi W. of; near NE. cor. sec. 15, T. 80 N., R. 25 W., 480 ft S. and 35 ft E. of T-rd. S., NW. Beaver Drive, 19 ft N. of drive to barn; 27 ft N. and 1 ft W. of a fence cor., in concrete post; standard tablet stamped "TT 2 LB 1956 922" (Disturbed 10-71, KED)		921.715
15.8 Reference mark, 460 ft NNW. of tablet 55 ft N. and 20 ft W. of center of rd. forks, on top and near center of concrete guard rail; 3 ft higher than center of rd., chiseled square		913.63
16.9 UE, 1.1 mi SE. of tablet, 25 ft N. and 45 ft W. from center of grassy triangle formed by rd. forks, in highline pole; rail spike		944.27
17.8 UE, 1.1 mi SE., thence 0.9 mi NE. from tablet, at W. end of bridge over Des Moines River, 20 ft S. of center of rd., at W. end of S. guard rail, in top of piling, copper nail and washer		824.78
18.0 Polk City, 1.5 mi S. and 0.5 mi E. of; near quarter cor. secs. 12 and 13, T. 80 N., R. 25 W., 520 ft S. and 32 ft W. of center T-rd. W. (private drive E.) 2 ft N. and 2 ft E. of fence post, in concrete post; standard tablet stamped "2 WTV 1956 840"		839.689
18.0 Reference mark, 70 ft SE. of tablet, 40 ft S. and 60 ft E. of tablet; in telephone pole; rail spike		839.05
18.5 UE, 0.5 mi SE. of tablet, in center of floor of concrete bridge over Big Creek; chiseled square		823.71
19.0 UE, 1.0 mi SE. of tablet, 30 ft N. and 35 ft E. of center of grassy triangle formed by rd. forks on N. side of triangle, 30 ft S. of, and 5 ft lower than center of rd., on concrete culvert; chiseled square		863.67
20.3 Polk City, 2.0 mi S. and 2.5 mi E. of; 0.5 mi N. and 3.0 mi W. of Ankeny; near center of sec. 17; T. 80 N., R. 24 W., 18 ft S. and 24 ft E. of point of intersection of curve in State Hwy. 60 and a gravel rd. E., 5 ft N. and 2 ft W. of a cor. fence post; in concrete post; a USC&GS and State Survey disk stamped "77 NO 124" (Elev. by USGS) (Not found, 10-71, KED)		982.906
20.4 Polk City, 2.0 mi S. and 2.5 mi E. of; 0.5 mi N. and 3.0 mi W. of Ankeny near center of sec. 17; T. 80 N., R. 24 W., 18 ft S. and 495 ft E. of T-rd. S. (point of intersection of hwy. curve N. to W., and a gravel rd. E.), 470 ft E. of I.G.S. post "77 NO 124", 1 ft N. of fence, in concrete post; a standard tablet stamped "3 WMV 1956 984" (Not found 10-71, KED)		984.005
22.2 Ankeny, 1.0 mi N. and 1.5 mi W. of, near cor. secs. 9, 10, 15 and 16; T. 80 N., R. 24 W., 24 ft N. and 120 ft W. of center of crossroads; 1 ft N. of fence, a standard iron pipe with cap stamped "PTS No 4 1903 964"		962.470
22.3 Reference mark, 160 ft E. of E1, 35 ft S. and 40 ft E. of center of crossroads; in power pole, a rail spike		961.42
23.0 UE, 0.7 mi S. of E1, 15 ft N. and 25 ft W. of center of rd. at private drive W., on N. end of concrete culvert, chiseled square		938.32

LINE 2 (Cont'd)

DES MOINES QUAD. - 100

FEET

- 23.4 Ankeny, 1.5 mi W. of; T. 80 N., R. 24 W., near cor. secs. 15, 16, 21 and 22; 26 ft S., and 175 ft E. of T-rd. E., in top of concrete post; a standard tablet stamped "TT 7 WM 1956 956" 955.608

LINE 3

W.M. Voight, 1956; Book CV-716

INDIANOLA QUAD. - 77

- 0.0 Norwalk, 1.75 mi N. and 0.5 mi E. of; about 0.3 mi N. and 0.2 mi E. of crossroads near cor. secs. 1, 6, 7 and 12; T. 77 N., Rs. 24 and 25 W., 50 ft S. and 8 ft E. of cor. fence post, at E. edge of brush in drain, in W. headwall of concrete culvert; a standard USC&GS disk stamped "Z 116 1935" 855.175
- 0.3 UE, 0.3 mi S. of disk, center of rd. at old RR. crossing; in rail tie; copper nail and washer 888.45
- 0.5 Norwalk, 1.5 mi N. of; along State Hwy. 28; 305 ft N. of E.-W. rd., 49 ft W. of center Hwy. 28; at a crossroads near cor. secs. 1, 6, 7 and 12; T. 77 N., Rs. 24 and 25 W., 1 ft W. of a power pole, and 1 ft E. of the right-of-way fence, in concrete post; standard tablet stamped "TT 9 LB 1956 904" 903.836
- 0.6 Reference mark, 270 ft SE. of tablet; 50 ft N. and 30 ft E. of center of T-rd. W. (Rd. E. offset); 5 ft N. of group of mail boxes; on steel culvert 905.15
- 1.5 UE, 0.3 mi W. of tablet, 10 ft N. of center of rd. at NW. cor. of bridge; on top of bridge piling; copper nail and washer 854.21
- 2.6 Cumming; 1.0 mi N. and 2.5 mi E. of; 430 ft N. and 33 ft W. of T-rd. E., near cor. secs. 2, 3, 10 and 11; T. 77 N., R. 25 W., 85 ft S. of a drive to farm yard; 3 ft N. of a fence cor., and under N.-S. right-of-way fence; in concrete post; standard tablet stamped "TT 8 LB 1956 869" 868.979
- 2.5 Reference mark, 250 ft SE. of "TT 8 LB 1956", in bridge piling at NE. cor. of bridge; copper nail and washer 864.72

DES MOINES QUAD. - 100

- 4.5 Cumming, 2.0 mi N. and 1.5 mi E. of; at N. edge of Ovilla, 40 ft N. and 30 ft W. of T-rd. E. (Ovilla Rd. and County Line); approximately 40 ft N. of Polk and Warren County Line; near cor. secs. 3, 4, 33 and 34; Tps. 77 and 78 N., R. 25 W., 15 ft N. of Hi-line brace pole; 2 ft E. of fence, in concrete post; standard USC&GS and State Survey disk stamped "77 NO 588" (Elev. by USGS) 971.417

WAUKEE QUAD. - 101

- 6.0 Cumming, 1.5 mi N. and 1.0 mi E. from; near quarter cor. between secs. 4 and 5; T. 77 N., R. 25 W., 330 ft S. along T-rd. S., 132 ft S., 21 ft W. of, and level with center of rd. at farm entrance W., 1 ft E. of fence line; in concrete post; standard tablet stamped "5 ADP 1950 971" (Reported disturbed) 970.672

LINE 4

W.M. Voight, 1956; Book CV-716

DES MOINES QUAD. - 100

- 0.0 Des Moines, at the SW. cor. of 5th St. and Courth. Avenue, in the S. wall of the sub post office and recruiting station, 1.6 ft above the sidewalk; a standard tablet stamped "807.449 1929" - Post has evidently been restamped by USC&GS "USGS 809" (Elev. by USC&GS) 807.449

LINE 4 (Cont'd)

DES MOINES QUAD. - 100

FEET

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| 0.6 | UE, at the S. edge of sidewalk to Veterans Memorial Auditorium, on top of sidewalk rail; metal tag on power pole 20 ft W., stamped "UE 859.0" | 859.01 |
| 0.9 | Des Moines, 0.7 mi N. of Polk County courthouse, at intersection of Seventh and School Sts., 40 ft S. and 17 ft E. of crossroads; on top of E. curb on 7th St.; standard tablet set in drill hole; stamped "TT 11 WM 1956 893" (Destroyed 8-14-62) State Hwy Dept. | 893.410 |
| 0.9 | Reference mark, 70 ft N. of tablet, on E. curb of 7th St., 30 ft N. and 17 ft E. of center of intersection of 7th and School Sts.; chiseled square | 895.49 |
| 1.5 | UE, 0.6 mi N. of tablet, in center of intersection of T-rd. S. (Forest Ave. and 7th St.); chiseled square | 887.55 |
| 2.1 | UE, 0.6 mi N. of tablet, center of T-rd. S. (Hickman Rd. and 7th St.); chiseled square | 842.28 |
| 2.8 | UE, 1.3 mi N. of tablet; center of 6th Ave. and Corning Ave., chiseled square | 806.55 |
| 3.3 | Des Moines, at, 3.1 mi N. of Polk County courthouse, T. 79 N., R. 24 W., 30 ft S. and 1340 ft W. of cor. secs. 22, 23, 26 and 27; 30 ft S. and 21 ft W. of center 6th Ave. and Douglas Ave., 1 ft N. and 20 ft E. of NE. cor. of McHaffies Rexall Drug Store Building; a standard tablet set in drill hole on top of W. curb of 6th Ave., stamped "TT 10 WM 1956 882" | 882.473 |

LINE 5

W.M. Voight, 1956; Book CV-716

DES MOINES QUAD. - 100

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| 0.0 | USGS tablet stamped "807.449 1929" (Described in Line 4) | 807.449 |
| 1.3 | Des Moines, at, 1.0 mi S. of Polk County courthouse, at junction of Clifton Ave., Taylor, and 9th St., 30 ft N. and 33 ft W. of T-rd. E. (junction Taylor St. and Clifton Ave.); 47 ft E. of 9th St., 3 ft W. of pole, in concrete post; standard tablet stamped "TT 12 WM 1956 825" | 825.272 |
| 1.3 | Reference mark, 140 ft SW. of "TT 12 WM 1956"; 2 ft N. of hi-line pole, on curb rail; chiseled square | 824.81 |
| 1.7 | UE, 0.4 mi S. of tablet, center of SW. 9th St. and Kirkwood Ave.; chiseled square | 898.30 |
| 3.8 | Des Moines, 3.5 mi S. of Polk County courthouse at, about 0.8 mi S. of city limits of Des Moines, at junction of SW. 9th St. and SW. Kenyon St., 27 ft S. and 53 ft W. of crossroads; 24 ft W. of power pole, in a concrete post; standard tablet stamped "TT 13 WM 1956 900" | 900.363 |
| 5.0 | UE, 1.2 mi S. of tablet, 12 ft S., 15 ft W. of; and 2 ft higher than center of bridge, on S edge of W. guard rail, chiseled cross | 887.04 |
| 5.4 | UE, Tps. 77 and 78 N., R. 24 W., 20 ft S. and 83 ft E. and 3.1 ft lower than crossroads, at quarter cor. between secs. 4 and 33 (junction SW. 9th St. and County Line Rd.); a rail spike in power pole | 937.75 |

INDIANOLA QUAD. - 77

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| 6.4 | Des Moines, 6.0 mi S. of Polk County courthouse at, T. 77 N., R. 24 W., near quarter cor. between secs. 4 and 9, 313 ft N. and 37 ft W. of T-rd. E., 5 ft N. and 1 ft E. of power pole, in a concrete post; a standard tablet stamped "TT 14 WM 1956 832" | 832.532 |
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LINE 5 (Cont'd)

INDIANOLA QUAD. - 77

FEET

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| 6.6 Reference mark; 0.23 mi S. of tablet, in center of concrete bridge over "Middle South Creek"; a chiseled square | 815.15 |
| 7.9 UE, about 1.0 mi W. of "TT 14 WM 1956", 140 ft S. and 20 ft E. of center of T-rd. W., on N. end of concrete culvert at entrance to Civil Aeronautics Station | 922.08 |
| 9.3 Copper nail and washer (Described in Line 3) | 888.45 |

LINE 6

L.H. Bergerding, 1956; Book CV-718

DES MOINES QUAD. - 100

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| 0.0 At Ankeny, Polk County, at the SE. cor. of the intersection of U.S. Hwy. 69 and County Rd. H, in sec. 24; T. 80 N., R. 24 W., 41.3 ft NW. of a corner of the porch of the G.M. West house, 9 ft E. of pipe at the NW. cor. of the sec., 5.8 ft SE. of a toll-line pole, and 2 ft E. of a white wooden witness post; a state survey standard disk stamped "77-10" and set in the top of a concrete post; (Elev. by USC&GS) | 975.329 |
| 1.5 UE, on top of headwall of concrete culvert on S. side of rd., 15 ft S. of center of rd. 203 ft E. of a N.-S. fence, and about 100 ft E. of curve in gravel rd. near quarter cor. secs. 15 and 22; T. 80 N., R. 24 W., a chiseled square | 964.90 |
| 2.0 Ankeny, 1.5 mi W. of, T. 80 N., R. 24 W., near cor. secs. 15, 16, 21 and 22; 26 ft S. and 175 ft E. of T-rd. E., in top of concrete post; standard tablet stamped "TT 7 WM 1956" | 955.608 |
| 2.1 Reference mark, on top of N. end of round concrete culvert; 20 ft N. and 46 ft E. of T-rd. E.; a chiseled square | 951.87 |
| 3.9 Ankeny; 1.75 mi S. and 1.5 mi W. of; T. 80 N., R. 24 W., near cor. secs. 27, 28, 33 and 34; 233 ft N. and 30 ft E. of crossroads; 6 ft E. of power pole, in concrete post; standard tablet stamped "TT 8 WM 1956" | 953.038 |
| 4.0 Reference mark, on top of E. headwall of culvert; 75 ft S. of E.-W. rd. and 15 ft E. of 6th Ave. at crossroad; a chiseled square | 952.98 |
| 6.4 Ankeny; 4.0 mi S. and 1.5 mi W. of; 2.25 mi N. of the city limits of Des. Moines, T. 79 N., R. 24 W., near center of N $\frac{1}{2}$ sec. 10; 108 ft S. and 28 ft E. of T-rd. E. (junction 6th Ave. and Hobson Drive); 4 ft E. of power pole, in concrete post; standard. tablet stamped "TT 9 WM 1956" | 824.319 |
| 6.4 Reference mark, 60 ft N. of BM, 50 ft S. and 35 ft E. of T-rd. E., on top of E. headwall of concrete culvert; a chiseled square | 822.86 |
| 9.1 USGS standard tablet stamped "TT 10 WM 1956" (Described in Line 4) | 882.473 |
| 9.1 Reference mark, 32 ft N. of Douglas Ave., 36 ft E. of 6th Ave., on top of concrete rail around parking lot of Lutz Super Market; 1.5 ft E. of SW. cor.; a chiseled square | 882.07 |
| 10.8 State Survey disk stamped "77-1273" (Described in Line 1) | 827.139 |

LINE 7

W.I. Mutka, 1956; Book CV-720

DES MOINES QUAD. - 100

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| 0.0 USC&GS and State Survey disk stamped "77-10" (Described in Line 6) | 975.329 |
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LINE 7 (Cont'd)

DES MOINES QUAD. - 100

FEET

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| 1.0 | T. 80 N., R. 24 W., in the NW. cor. of sec. 13; 50 ft S. and 60 ft E. and 0.6 ft higher than the center of crossroads; top of bolt in 4-in. square concrete post | 948.47 |
| 2.4 | Ankeny; 1.25 mi N. and 1.9 mi E. of, T. 80 N., R. 23 W., 555 ft W. of quarter cor. between secs. 7 and 18; on top of SW. wingwall of a concrete bridge; a standard tablet set in a drill hole; stamped "TT 1 WM 1956" | 901.800 |
| 2.4 | T. 80 N., R. 23 W., 15 ft S. and 493 ft W. of quarter cor. between secs. 7 and 18; 92 ft E. of bench mark; on top of SE. wingwall of E. end of bridge, a chiseled square | 901.50 |
| 4.1 | Ankeny, 1.25 mi N. and 3.5 mi E. of; T. 80 N., R. 23 W., 30 ft S. and 32 ft W. and 1.1 ft lower than crossroads at cor. secs. 8, 9, 16 and 17; 2 ft N. and 1 ft E. of power pole, in a concrete post; a USC&GS and State Survey disk stamped "77-1054" | 976.607 |
| 4.8 | About 1.0 mi N. along the Chicago, Rock Island and Pacific RR. from the station at Enterprise, Polk County, at the crossing of the rd. along the S. line of sec. 9, T. 80 N., R. 23 W., 80.8 ft ENE. of the SW. fence cor., 55.3 ft NW. of a crossing sign, 38.3 ft W. of the W. rail, and 5.1 ft N. of a pole; a State Survey standard disk stamped "77-1057" and set in the top of a concrete post; (Elev. by USC&GS) (Not found 7-17-56, LBR) | 979.391 |

LINE 8

W.I. Mutka, 1956; Book CV-720

DES MOINES QUAD. - 100

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|-----|---|---------|
| 0.0 | USC&GS and State Survey disk stamped "77-1057" (Described in Line 7) | 979.391 |
| 0.1 | Reference mark is 600 ft E. of bench mark on top of W. end of S. headwall of concrete bridge; a chiseled square | 975.52 |
| 1.2 | UE, T. 80 N., R. 23 W., 31 ft N. and 45 ft W. and 2.2 ft lower than center of crossroads at cor. secs. 10, 11, 13 and 15; a rail spike in telephone pole | 995.32 |
| 2.3 | Ankeny, 5.5 mi E. of, 1.5 mi E. of Enterprise; T. 80 N., R. 23 W., near cor. of secs. 14, 15, 22 and 23; 300 ft S. and 31 ft W. and 6.2 ft lower than center of crossroads, 1 ft E. of fence, in a concrete post; a standard tablet stamped "TT 2 WM 1956" | 980.016 |
| 2.3 | Reference mark is 247 ft N. of bench mark, rail spike (head of) in power pole brace | 981.33 |
| 3.2 | UE, T. 80 N., R. 23 W., 35 ft N. and 30 ft W. and 0.2 ft lower than T-rd. W., at cor. of secs. 22, 23, 26 and 27; head of rail spike in telephone pole | 982.14 |
| 4.3 | UE, T. 80 N., R. 23 W., 50 ft S. and 34 ft W. and 1.8 ft lower than center crossroads at cor. secs. 26, 27, 34 and 35; rail spike in telephone pole | 964.83 |
| 4.5 | Ankeny, 1.75 mi S. and 5.3 mi E. of; 2.2 mi W. of Bondurant, T. 80 N., R. 23 W., 29 ft S. and 1067 ft W. of cor. secs. 26, 27, 34 and 35; 29 ft S. and 65 ft W. of center of rd. at driveway S. to farmhouse, 6 ft N. of yard fence, in a concrete post; a USC&GS and State Survey tablet stamped "77-83". (Elev. by USGS) (Destroyed 10-71, KED) | 967.033 |
| 5.7 | UE, Tps. 79 and 80 N., R. 23 W., 38 ft N. and 32 ft W. and 0.3 ft higher than center of crossroads at cor. secs. 2, 3, 34 and 35; rail spike in telephone pole | 955.99 |
| 6.3 | Ankeny, 3.25 mi S. and 5.5 mi E. of, T. 79 N., R. 23 W., 3 ft N. and 30 ft W. and 0.8 ft lower than center of rd. at E.-W. fence, at quarter cor. between secs. 2 and 3, 3 ft N. and 1 ft E. of fence cor., a USC&GS and State Survey disk in concrete post stamped "77-1030" (Elev. by USGS) | 964.026 |

LINE 8 (Cont'd)

DES MOINES QUAD. - 100

FEET

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| 6.8 UE, T. 79 N., R. 23 W., cor. secs. 2, 3, 10 and 11; 30 ft N. and 32 ft E. and 1.7 ft lower than center of crossroads; rail spike in power pole | 958.80 |
| 7.2 Ankeny, 4.25 mi S. and 5.5 mi E. of; 1.5 mi N. and 2.0 mi W. of Altoona, T. 79 N., R. 23 W., 339 ft N. and 3/4 ft E. of quarter cor. between secs. 10 and 11; 24 ft N. and 3/4 ft E. and 0.3 ft higher than private T-rd. E. to farmhouse, 9 ft N. and 2 ft W. of REA pole, in a concrete post; a standard tablet stamped "TT 3 WM 1956" | 964.639 |
| 7.3 Reference mark is 35 1/4 ft S. and 61 ft W. of bench mark, 15 ft S. and 27 ft W. and 2.6 ft lower than center rd. at fence E., a rail spike in telephone pole | 961.59 |
| 7.8 UE, T. 79 N., R. 23 W., cor. secs. 10, 11, 14 and 15; 31 ft N. and 29 ft W. and 2.2 ft lower than center crossroads; a rail spike in telephone pole | 960.78 |
| 8.8 UE, T. 79 N., R. 23 W., cor. secs. 14, 15, 22 and 23; 49 ft S. and 32 ft W. and 0.9 ft lower than center crossroads; a rail spike in telephone pole | 924.97 |
| 9.8 USGS standard tablet stamped "TT 4 WM 1956" (Described in Line 1) | 897.318 |

LINE 9

W.I. Mutka, 1956; Book CV-720

WAUKEE QUAD. - 101

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| 0.0 USGS standard tablet stamped "TT 5 LB 1956" (Described in Line 2) | 964.510 |
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DES MOINES QUAD. - 100

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| 1.4 Des Moines, 3.1 mi N. and 5.5 mi W. of Polk County courthouse at, T. 79 N., R. 25 W., 27 ft N. and 1670 ft E. of cor. secs. 22, 23, 26 and 27; 27 ft N. and 4 ft W., and 2.0 ft higher than center of Hwy. 132 at fence N., 1 ft S. and 4 ft W. of fence cor., in a concrete post; a standard tablet stamped "15 WM 1956" | 938.066 |
| 1.4 Reference mark is 118 ft E. of bench mark; a rail spike in telephone pole | 933.14 |
| 3.1 Des Moines, 3.1 mi N. and 3.75 mi W. of Polk County courthouse at; T. 79 N., Rs. 24 and 25 W., 23 ft S. and 23/4 ft W. and 1.8 ft lower than center of crossroads at cor. secs. 19, 24, 25 and 30; 23/4 ft W. of Merele Hayes St., 23 ft S. of Douglas Ave., 3 ft W. of power pole, in a concrete post; a standard tablet stamped "16 WM 1956" | 942.339 |
| 3.3 Des Moines, 3.1 mi N. and 3.6 mi W. of Polk County courthouse at; 23 ft S. and 110 ft E. and 1.7 ft higher than center of Douglas Ave., at 57th St. going S., in a concrete post; a USC&GS and State Survey disk stamped "77-297" (Elev. by USGS) | 952.258 |
| 4.1 Des Moines, 3.1 mi N. and 2.75 mi W. of Polk County courthouse at; 24 ft S. and 46 ft W. and 1.5 ft higher than center Douglas Ave., at center of driveway S. to House No. 4518, in a concrete post; a standard USC&GS and State Survey disk stamped "77-1261" (Elev. by USGS) | 943.082 |
| 5.7 Des Moines, 3.1 mi N. and 1.25 mi W. of Polk County courthouse, at, T. 79 N., R. 24 W., in the NW 1/4 of sec. 28; 28 ft S. and 1 1/4 ft W. and 0.7 ft higher than center of rd. at center RR., 28 ft S. of Euclid Ave., 16 ft W. of center of RR., in concrete post; a standard tablet stamped "17 WM 1956" | 806.761 |

LINE 9 (Cont'd)

FEET

7.1 USGS standard tablet stamped "TT 10 WM 1956" (Described in Line 4) 882.473

LINE 10

W.I. Mutka, 1956; Book CV-720

DES MOINES QUAD. - 100

- 0.0 4.3 mi SE. along the C.R. I. & P. RR. from the crossing of the Chicago, Burlington and Quincy RR. at Des Moines, Polk County, 400 ft NW. of State Hwy. 60 overpass 686, at bridge 687; at a private rd. crossing, 36 ft NE. of the center of the track, 18 ft NW. of the center of the rd., 3 ft SW. of a pole, and about 4 ft lower than the track; a standard USC&GS disk stamped "S 112 1935" and set in the top of a concrete post 785.783
- 0.7 Located about 0.1 mi N. of Levey, Iowa, in the NE. cor. of the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ sec. 20; T. 78 N., R. 23 W., 326.6 ft SE. of concrete head of a RR. trestle bridge, E. side of and S. header, 307.2 ft N. of intersection of N. rail and Hwy. 60, measured on N. rail of track, 175.4 ft SW. of cross spikes in high line pole, 156.3 ft NW. of cross spikes in high line pole, 3.6 ft N. of N. rail of C.B. & Q. RR. tracks; a standard USC&GS and State Survey disk set in concrete and stamped "77-1452" (Elev. by USGS) 785.146
- 1.5 UE, 0.55 mi NW. of bridge over Des Moines River, 49 ft S. and 55 ft E. and 1.1 ft higher than tangent of rds. N. and W., a rail spike in power pole 782.20
- 2.9 Located 0.5 mi E. of the E. city limits of Des Moines, Iowa, in SE $\frac{1}{4}$ sec. 8, T. 78 N., R. 23 W., on Wabash right-of-way on N. side of track, W. of Hwy. "GG 775.4 ft N. of SE. cor. sec. 8, taken off concrete cor. stone, measured up center of rd. to point 6.7 ft W. of spike head in N. end of bridgeheader at W. end of bridge over drainage ditch, (EM is 23 ft N. and 39 ft W. and 0.7 ft lower than center rd. at center RR.); 17.1 ft NW. of spike head of S. end of bridge header W. end, 4.4 ft N. of RR. rail, 16.3 ft NE. of white bridge marker; a standard disk set in the top of a concrete monument set flush with the surface USC&GS and State Survey disk stamped "77-1412" (Elev. by USGS) 783.792
- 2.9 Reference mark, is 68 ft NE. of bench mark; a rail spike in power pole 780.12
- 3.7 UE, T. 78 N., R. 23 W., cor. secs. 4, 5, 8 and 9; 23 ft N. and same elevation as T-rd. S., a rail spike in power pole 806.37
- 4.7 0.5 mi NE. of Youngstown, 67 ft N. and 56 ft E. and 5.3 ft higher than center of Rising Sun Rd., at center of Boggstown Rd., N., a rail spike in telephone pole 872.73
- 6.0 Junction Hwys. 60, 65, 59 and 163 at Des Moines, 4.8 mi E. of; 1.3 mi E. of city limits of Des Moines; T. 79 N., R. 23 W., 15 ft S. and 1179 ft W. of T-rd. N., at S. cor. of secs. 34 and 35; 15 ft S. and 175 ft E. and 0.1 ft higher than center Hwy. 163 at fence n., on top of E. end of S. headwall of concrete box culvert; a standard tablet cemented in drill hole; stamped "TT 5 WM 1956" 864.122
- 6.1 Reference mark, is 42 ft N. and 304 ft E. of bench mark, a rail spike in power pole 860.09
- 6.6 T. 79 N., R. 23 W., 620 ft S. of quarter cor. between secs. 34 and 35; 33 ft N. and 31 ft E. and 1.2 ft lower than center of rd. at center RR., a rail spike in power pole 850.66
- 7.0 T. 79 N., R. 23 W., 1150 ft N. of quarter cor. between secs. 34 and 35; center rd. at private rd. W. to farmhouse 834.8
- 7.6 UE, 0.4 mi W. of disk in triangle formed by rd. forks, in power pole; rail spike 933.68

MITCHELLVILLE QUAD. - 99

8.1 USC&GS standard disk stamped "869.831 Q 4 1930" (Described in Line 1) 869.831

LINE 11

FEET

W.I. Mutka, 1956; Book CV-720

DES MOINES QUAD. - 100

0.0	USC&GS and State Survey disk stamped "EM 77-1452" (Described in Line 10)	785.146
0.1	UE, on top of SW. wing wall of highway bridge over Des Moines River; a chiseled square	790.69
1.1	T. 78 N., R. 23 W., center of sec. 21, 18 ft S. and 18 ft E., 0.8 ft lower than T-rd. S., a rail spike in power pole	777.15
1.4	T. 78 N., R. 23 W., 0.25 mi N. of quarter cor. between secs. 21 and 28; 110 ft S. and 55 ft E., 0.5 ft lower than T-rd. E., a painted square on a concrete base of old building site	776.6
2.2	T. 78 N., R. 23 W., near center of sec. 28, 43 ft N. and 18 ft W., and 1.7 ft lower than center rd. at center private driveway E., in a power pole; a rail spike	799.15
2.6	T. 78 N., R. 23 W., quarter cor. between secs. 28 and 33; 30 ft S. and 21 ft W. and same elevation as crossroads; a rail spike in power pole	809.79
3.1	State Capitol at Des Moines, 5.0 mi S. and 4.5 mi E. of; T. 78 N., R. 23 W., near center of sec. 33, 223 ft N. and 20 ft W. and 0.1 ft higher than crossroads; 28 ft N. of power pole, in a concrete post; a standard tablet stamped "TT 6 WM 1956"	799.432
3.1	Reference mark is 178 ft S. of bench mark, 45 ft N. and 19 ft W. and same elevation as crossroads; a rail spike in power pole	799.29
3.8	T. 77 N., R. 23 W., near center of $N\frac{1}{2}$ sec. 4, on top of NW. end of the NW. concrete wing wall of bridge on State Hwy. 60; a chiseled square	792.36
4.4	T. 77 N., R. 23 W., N. cor. of secs. 4 and 5, 75 ft N. and 92 ft W. and 1.8 ft lower than tangent of rds. S.-W. on top of the SE. cor. of the SW. abutment of a concrete box culvert on Hwy. 60; a chiseled square	789.52
5.4	State Capitol at Des Moines; 5.5 mi S., 3.0 mi E. of, Tps. 77 and 78 N., R. 23 W., 26 ft N. and 420 ft E., and 14.9 ft lower than crossroads, at cor. of secs. 5, 6, 31 and 32, a USC&GS and State Survey disk stamped "77-2615" (Elev. by USGS) (Reported not found 10-71, KED)	861.709
5.5	State Capitol at Des Moines; 5.5 mi S. and 3.0 mi E. of, Tps. 77 and 78 N., R. 23 W., 34 ft S. and 165 ft W., and 9.4 ft higher than crossroads at cor. of secs. 5, 6, 31 and 32; 1 ft N. and 1 ft W. of fence cor., in a concrete post; a standard tablet stamped "18 WM 1956" (Destroyed 10-71, KED)	885.994
5.5	Reference mark, is 14 ft S. and 80 ft E. of bench mark, a copper nail and washer on the NW. root of 24-in. diameter elm tree	880.85
6.6	UE, T. 77 N., R. 23 W., 15 ft S. and 583 ft W. and 19.2 ft lower than T-rd. W. at center of sec. 6, on top of E. end of S. abutment of concrete box culvert, a chiseled square	806.01
7.6	State Capitol at Des Moines, 6.0 mi S. and 1.5 mi E. of, T. 77 N., R. 24 W., near the center of sec. 1, 19 ft S. and 416 ft E. and 26.6 ft higher than center of U.S. Hwy. 69 at center of rd. E., 1 ft S. and 1 ft W. of telephone pole, in a concrete post; a standard tablet stamped "19 WM 1956" (Not found 10-71, KED)	867.780
7.5	Reference mark is 410 ft E. of bench mark, 30 ft S. and 9 ft E. and 2.2 ft lower than center of rd. at private rd. NE. to farmhouse, a rail spike in telephone pole	865.98

X

12
DES MOINES QUADRANGLE
100 - IOWA

LINE 11 (Cont'd)

DES MOINES QUAD. - 100

FEET

- 9.3 Tps. 77 and 78 N., R. 24 W., 31 ft N. and 44 ft E. and 1 ft lower than T-rd. N., at cor. secs. 2, 3, 34 and 35; a rail spike in telephone pole 883.88
- 9.8 State Capitol at Des Moines, 5.5 mi S. and 0.5 mi W. of, Tps. 77 and 78 N., R. 24 W., near quarter cor. between secs. 3 and 34, 35 ft N. and 223 ft W. and 1.5 ft lower than T-rd. S., 5 ft N., and 1 ft E. of fence cor., in a concrete post; a standard tablet stamped "20 WM 1956" (Not found 10-71, KED) 936.089
- 9.8 Reference mark is 65 ft S. and 12 ft W. of E4; a rail spike in power pole 934.52
- 10.8 "UE 937.7" (Described in Line 5) 937.75

LINE 12

K.E. Daly, 1971; Book CV-2752

DES MOINES QUAD. - 100

- 2 8 0.0 USC&GS EM "77 NO 588" (Described in Line 3) 971.417

INDIANOLA QUAD. - 77

- 8 0.5 UE 77 A, 0.5 mi S. of disk at crossroads; 33 ft S., 83 ft W. and 0.8 ft higher than crossroads; N. side of fence cor. post, head of RR. spike; painted 972.46
- 9 1.6 Cummings, 1.5 mi W. and 1.0 mi E. from; near quarter cor. between secs. 4 and 5, T. 77 N., R. 25 W., 330 ft S. along T-rd. S.; 132 ft S., 21 ft W. and level with center of rd. at farm entrance W., 1 ft E. of fence line, in concrete post; standard tablet stamped "5 ADP 1950" (loose in ground 5-64, WEM) 971.335
- 10 1.7 Reference mark, is 733 ft S. of tablet, 37 ft N., 27 ft W. and ft lower than rd. at RR.; W. end of 2.6 ft metal culvert punched hole, in painted square, painted 957.78

ST. CHARLES QUAD. - 78

- 11 2.3 UE 5 A, 0.5 mi S. of tablet at a small wood bridge, 12 ft W. and 1.3 ft lower than rd. at bridge, top of inside wood piling of W. wingwall of S. abutment, copper nail and washer; painted 915.86

LINE 13

K.E. Daly, 1971; Book CV-2752

DES MOINES QUAD. - 100

- 2 31 0.0 EM 77 1030 (Described in Line 8) 964.026
- 31 0.6 USC&GS and State Survey 77 1028, Bondurant, 1.0 mi S. and 2.0 mi W. of at crossroads near cor. secs. 2, 3, 34 and 35, T. 79 and 80 N., R. 23 W., 33 ft S., 38 ft E. and 1.5 ft lower than crossroads, in a concrete post projecting 2-in. a USC&GS and State Survey tablet stamped "77-1028" (Elev. by USGS) 954.411
- 32 1.4 Reference mark is 1080 ft S. of tablet, 1120 ft S. and 17 ft E. of crossroads; E. end 1.6 ft metal culvert, punch hole in painted square 960.68
- 33 1.6 Bondurant, 2.0 mi W. of at crossroads, near cor. secs. 26, 27, 34 and 35, T. 80 N., R. 23 W., 41 ft S., 39 ft E. and 2.8 ft lower than crossroads; 4 ft E. of fence cor., 0.5 ft N. of fence and 1 ft NW. of metal witness post and sign, a standard tablet stamped "13 KED 1971" attached to a driven copper weld rod and centered in a 6-in. tile flush with ground, filled with gravel and tablet is 2-in. below surface; painted 963.951

LINE 13 (Cont'd)

DES MOINES QUAD. - 100

FEET

2	34	2.7	UE 13 A Centerline, 1.0 mi N. of tablet centerline of T-rd. W., head of RR. spike 1-in. below rd. surface; painted	982.09
	35	3.5	Reference mark is 558 ft S. of tablet, 858 ft S. and 18 ft W. of crossroads; W. end of 2.5 ft metal culvert, punch hole in painted square	977.99
	36	3.6	EM TT 2 WI 1956 (Described in Line 8)	980.016

OBSOLETE CONTROL

Des Moines post office, 1 ft E. of SW. cor.; aluminum tablet stamped "809 ADJ 1903"	807.449
Des Moines, Twenty-eighth Street crossing of Chicago, Rock Island and Pacific RR., 100 ft N. of race track, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8; T. 78 N., R. 24 W., 30 ft N. of cottonwood tree; iron post stamped "804 ADJ 1903" (Reported not found 11-56 LBR)	803.075
Valley Junction, in foundation of public school, 1 ft W. of entrance door; aluminum tablet stamped "821 ADJ 1903"	819.695
Motts schoolhouse, 1.1 mi N. of, 20 ft N. of center of forks of rds., 400 ft W. of rd. N., 400 ft W. of SE. cor. of sec. 26; T. 79 N., R. 25 W., iron post stamped "869 ADJ 1903"	868.194
Kimball Corner, SE. cor. of sec. 19; T. 79 N., R. 24 W., 50 ft NW. of center of crossroads; 2.0 mi N. of University Avenue; iron post stamped "935 ADJ 1903"	934.079
Beaver Creek, 1.6 mi N. of, NE $\frac{1}{4}$ sec. 7, T. 79 N., R. 24 W., NE. cor. Lawson schoolhouse; iron post stamped "833 ADJ 1903"	832.038
Ridgedale schoolhouse, near center sec. 36; T. 80 N., R. 25 W., SE. cor. of school yard, opposite rd. S.; iron post stamped "959 ADJ 1903"	958.059
Corydon Bridge, 1.0 mi W. of, about center of sec. 14; T. 80 N., R. 25 W., 40 ft W. of center of rd., in A.L. Frazer's yard; iron post stamped "950 ADJ 1903" (Destroyed 5-56, WNW)	949.066
Des Moines, RR. bridge over Des Moines River, N. face of coping, 2 ft W. of E. end of pier on S. bank, SW. cor. of sec. 6, T. 78 N., R. 24 W.; aluminum tablet stamped "797 ADJ 1903" (Reported not found 11-56, ADJ)	795.312
Bowsher station, 0.8 mi S. of, bridge over Four Mile Creek, in S. side of E. abutment; aluminum tablet stamped "821 ADJ 1903" (Not found 6-56, LBR)	819.374
Berwick, 200 ft N. of station, E. of rd., 20 ft N. of elm; iron post stamped "841 ADJ 1903" (Not found, 6-56, LBR)	840.038
Berwick, 1.6 mi N. of, 150 ft SW. of brick house, 100 ft NE. of fork of rd., iron post stamped "942 ADJ 1903" (Not found 6-56, LBR)	941.012

OBSOLETE CONTROL (Cont'd)

FEET

Ankeny, Methodist Episcopal Church, in foundation stone facing E. and 2 ft S. of N. main-entrance door; aluminum tablet stamped "997 ADJ 1903" (Reported destroyed 5-67, LNW)	995.890
T. 80 N., R. 24 W., NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18; 150 ft W. of rd. fork, Corydon Bridge; iron post stamped "850 ADJ 1903" (Reported not found 5-56, WMT)	899.004
Enterprise, 1.0 mi N. of, in SE. cor. of J. Wohlwind's farm, on N. side of E.-W. rd., 2.5 ft NW. of cor. post of field; iron post stamped "PRIM TRAV STA NO 5" (Not found 6-56, LBR)	981.119
T. 80 N., R. 23 W., SE. cor. sec. 19; 40 ft NW. of center of crossroads; iron post stamped "938 ADJ 1903 936.537"	936.927
Orillia, in S. cor. of triangular lot owned by G.W. Briggs, NE. cor. of brick foundation to a Muller's residence, bears N. 63°40' W., distant 106.1 ft; NE. cor. of brick foundation to R. G. Latimer's residence, bears S. 77°30' W., distant 196.1 ft; iron post set 40-in. in the ground stamped "PRIM TRAV STA NO. 1" (Not found 6-56, LBR)	971.210
Youngstown, center of S. side of sec. 5; T. 78 N., R. 23 W., on W. face of coping stone above E. pier of RR. bridge over Four Mile Creek; aluminum tablet stamped "796 ADJ 1903" (Not found 10-56, LBR)	794.205
Levey, 15 ft W. of rd., 175 ft NW. of E.S. Irwin's house; iron post stamped "PRIM TRAV STA NO 7 782 ADJ 1903" (Not found 10-56, ADJ)	780.620