

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

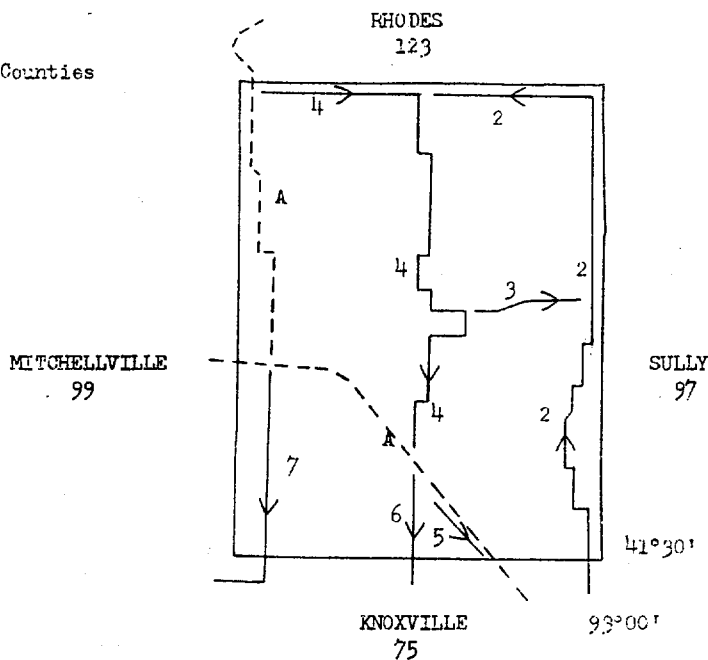
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NEWTON QUADRANGLE
98 - IOWA
N4130-W9300/15
DIAGRAM NK 15-8
DES MOINES, IOWA

Jasper and Marion Counties

Edition of 1/25/65

PR: ADP:vdc



USC&GS LEVELING
A. No. 410931

LINE 1

Feet

ISOLATED BENCH MARKS NOT SHOWN ON DIAGRAM

T. 78 N., R. 21 W., at cor. secs. 1, 2, 11 and 12; in NE. angle of crossroads; top of concrete wall at fence corner; chiseled square	928.17
T. 78 N., R. 21 W., at cor. secs. 11, 12, 13 and 14; 30 ft N. and 30 ft E. of crossroads; on concrete post; bronze tablet stamped "P T S L S 22-1924 Iowa" (not found 8/64 J.H.B.)	885.178
E. 78 N., R. 21 W., at cor. secs. 25, 26, 35 and 36; 40 ft S. and 20 ft E. of crossroads on concrete post; bronze tablet stamped "P T S 23 L. S. 1924 Iowa" (not found J.H.B.)	913.188
Reference mark, 62 ft W. and 8 ft S. of tablet; top of concrete curb around churchyard; chiseled square	913.90
Valley School ground, in SW. corner of; 4 ft N. and 8 ft E. of large willow tree; on concrete post; bronze tablet stamped "P T S 21 L.S. 1924 Iowa"	847.511
T. 79 N., R. 21 W., near cor. secs. 11, 12, 13 and 14; 175 ft E. and 15 ft N. of crossroads; top of second concrete step leading to farmhouse yard; chiseled square	881.53
Golfax, 0.25 mi S. of; 30 ft N. of elbow in rd. at quarter cor. between secs. 11 and 12; on concrete post; bronze tablet stamped "P T S 20 L.S. 1924 Iowa"	915.360
Reference mark, 5 ft E. of tablet; top of gas pipe	915.35
Golfax, on S. Locust Street between West Broadway and West Washington Streets, on W. side of public grade school bldg., on S. side of N. door, in top of front stone; chiseled square	813.294
Golfax, on N. side of; top of NE. end of railing of concrete bridge on Hwy. 64 over Skunk River; drainage ditch; chiseled square	794.85

98 D

2
 NEWTON QUADRANGLE
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LINE 2

Feet

NORTH ALONG EAST BORDER THENCE WEST (C.H. Baker, 1964; CV 1704) KNOXVILLE QUAD. - 75

- 1 6 3.8 USC&GS and State Survey marker 115; tablet is in top of concrete post; 3 ft W. of fence; 18 ft N. of power pole; 48 ft N. of center of rd. at drive E.; (moved by local farmers) (elev. by U.S.G.S.) 867.169
- 7 4.2 UE, NW. headwall of bridge; T. 77 N., R. 19 W., about 0.25 mi S. of cor. secs. 1, 2, 11 and 12; chiseled square on NE. corner of headwall of bridge over Van Zante Creek 763.75
- 4.7 Otley, 2.5 mi N. and 1.5 mi E. of; Tp. 77 N., R. 19 W., near NE. cor. ~~SE 1/4~~ ~~SE 1/4~~ sec. 2, 32 ft W. of center of N.-S. rd. at drive W.; 9 ft S. at N.-S. fence; 2 ft NE. of telephone pole; a standard tablet stamped "ET 7 DB 1964" set in concrete post 762.856
- NEWTON QUAD. - 98
- 8 5.4 Trd. S.; N. of iron post stamped "P T S 4 1908 Iowa; T. 77 and 78 N., R. 19 W., near cor. secs. 1, 2, 35 and 36 766.837
- 10 6.2 UE, chiseled square on SE. headwall of culvert; T. 78 N., R. 19 W., near center of sec. 35, 30 ft E. and 2.2 ft below center of rd.; chiseled square on SE. headwall of concrete culvert; Dr. 2.6 ft below UE 806.14
- 11 6.8 UE, spike in pole; T. 78 N., R. 19 W., near quarter cor. between secs. 26 and 35; 30 ft N. and 0.6 ft higher than center of T-rd. S. 879.3
- 13 8.0 UE, chiseled square; in NW. headwall; T. 78 N., R. 19 W., near quarter cor. between sec. 26 and 27, about 600 ft S. of T-rd. W.; 25 ft W. of and 6 ft below center of rd. in NW. headwall of small concrete culvert; Dr. 10 ft below center of rd. 814.25
- 14 8.4 Monroe, about 4.0 mi E. of; T. 78 N., R. 19 W., near NE. cor. of sec. 27, at top of cut on crest of high hill; about 50 ft W. of center of rd. at curve; 1 ft E. of fence and flush with ground; standard tablet in top of concrete post; stamped "52 HB 1964" 845.665
- 15 8.4 Reference mark, about 100 ft NE. of mark; spike in SW. base of large 36-in. oak tree 833.00
- 8.9 UE, chiseled square on NE. headwall of bridge; 2.4 ft below level of bridge 751.04
- 16 9.9 UE, painted square on SW. end of corrugated pipe culvert; about 36 ft SW. of T-rd. S.; 4 ft below center of T-rd.; drain 5 ft below center of T-rd 771.7
- 18 11.4 UE, center of T-rd. S., Reasoner, 1.0 mi E. and 1.0 mi S. of; cor. secs. 11, 12, 13 and 14 868.1
- 19 11.9 UE, spike in top piling, 20 ft SE. and 1.5 ft below intersection of Y-rd. 758.70
- 20 12.6 Reference mark, top of iron rod in top of right-of-way marker in fence corner; about 75 ft NW. of T-rd. N. 872.74
- 12.6 Reasoner, 1.0 mi E. of; about 300 ft N. of T-rd. N.; 30 ft E. of center of N.-S. rd., 1 ft W. of fence and projecting about 2-in.; standard tablet set in top of concrete post; and stamped "53 HB 1964" 879.703
- 22 13.5 UE chiseled square on W. headwall of culvert; T. 78 N., R. 19 W., near quarter cor. between secs. 1 and 2; 15 ft W. and 2.5 ft below center of rd.; chiseled square on W. headwall of concrete culvert; Dr. 9 ft below center of rd. 801.11
- 24 14.9 UE, center of crossroads; T. 79 N., R. 19 W., about 0.25 mi S. of quarter cor. between secs. 25 and 36; center of crossroads 908.7
- 14.9 Reasoner, 2.0 mi N. and 1.0 mi E. of; T. 79 N., R. 19 W., near NW. cor. ~~SW 1/4~~ ~~NE 1/4~~ sec. 36; 37 ft S., and 33 ft E. of crossroad; 2 ft S. and 1 ft W. of fence corner; a standard tablet stamped "ET 6 DB 1964" set in concrete post; flush with ground 906.989
- 26 15.7 UE, Spike in pole; T. 79 N., R. 18 W., about 0.25 mi E. and 0.25 mi S. of cor. secs. 25, 30, 31 and 36; about 30 ft N. and 30 ft E. of center of T-rd. N. 880.1

LINK 2 (Cont'd)

NEWTON QUAD. - 98

Feet

1 27 16.7	Reference mark, 200 ft SW. of tablet; on W. side of rd.; spike in power pole	918.28
16.7	Reasoner, 3.5 mi N. and 1.5 mi E. of; T. 78 N., R. 18 W., about 0.25 mi S. and 0.25 mi E. of cor. secs. 19, 24, 25 and 30, about 200 ft S. of driveway E., 30 ft E. of center of rd. and 1 ft W. of fence; standard tablet set in top of concrete post; stamped "54 HB 1964"	922.419
30 18.0	UE, spike in power pole; 12 ft S. and 30 ft E. and 0.75 ft below center of rd. in single pole power line crossing rd. at angle NW.-SE.	939.40
31 18.8	UE, painted square on E. end of iron culvert; under driveway	942.2
32 19.6	UE, center of rd. at E.-W. fence	939.1
33 20.5	UE, chiseled square on N. headwall of culvert	858.8
34 20.8	Reference mark, spike in telephone pole; 65 ft N.	934.69
20.8	Newton, 2.4 mi E. and 1.0 mi S. of; T. 79 N., R. 18 and 19 W., about 0.25 mi N. of secs. 1, 6, 7 and 12; about 0.5 mi W. of Jasper County Home; on crest of hill; about 150 ft W. of Y-rd.; 30 ft S. of E.-W. rd., 4 ft W. of corner fence post; 1 ft N. of fence and set flush with ground; a standard tablet stamped "55 HB 1964" set in top of concrete post	934.279
36 21.5	UE, chiseled square in S. headwall of culvert; 1.9 ft above rd., 9.6 ft above drain	858.33
37 22.3	UE, chiseled square on N. lip of bridge; 0.5 ft above center of rd., 15 ft N. of center of rd.	875.26
38 23.3	Reference mark, 170 ft N and 70 ft E. of tablet; spike in power pole	959.21
23.3	Newton, 2.4 mi E. and 1.0 mi N. of; T. 80 N., R. 18 and 19 W., about 0.25 mi S. of cor. secs. 25, 30, 24 and 19; 140 ft S. of fence E.; 33 ft W. and 0.3 ft below center of rd., 1 ft E. of fence and flush with ground in field; standard tablet set in top of concrete post; stamped "56 HB 1964"	960.924
39 23.5	UE, chiseled square on S. headwall of culvert; cor. secs. 24, 25, 19 and 30; 36 ft E. and 20 ft S. and 2.5 ft below center of crossroads; Dr. 9.5 ft below UE	915.25
41 24.7	UE, chiseled square on E. headwall of culvert; about 0.25 mi S. of RR. crossing; about 1/8 mi S. of crossroads; 15 ft E. and 1.28 ft below center of rd., chiseled square in E. headwall of small culvert;	926.88
42 25.3	Reference mark, spike in pole; 100 ft NE. of tablet;	968.75
25.3	Newton, 2.0 mi E. and 2.5 mi N. of; T. 80 N., R. 18 and 19 W., about 0.25 mi S. of cor. secs. 7, 12, 13 and 18; 27 ft W. of center of rd., 15 ft S. of concrete fence post; 6 ft E. of fence and set flush with ground; standard tablet set in top of concrete post; stamped "57 HB 1964"	967.387
43 25.6	UE, chiseled square in S. headwall of small culvert; 15 ft S., 21 ft W. and 1 ft below center of crossroads	928.57
26.0	Newton, 3.2 mi N. and 2.0 mi E. of; T. 80 N., R. 18 W., near NE. cor. of NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, 1056 ft E. of crossroads; 32.2 ft S. of center of rd., 9.8 ft E. of center of field entrance S., 2.3 ft NE. of gate post; 1.3 ft N. of E.-W. fence, standard tablet stamped "ET 1 DHB 1964" set in concrete post	969.362
44 26.6	UE, chiseled square on W. headwall of small culvert; 21 ft N. and 21 ft W. and 0.15 ft below center of crossroads	964.58
46 27.8	UE, painted square on S. end of iron pipe culvert; 27 ft W., 27 ft S. and 2.1 ft below center of crossroads	944.6
47 28.7	Reference mark, spike in power pole; 90 ft NW. of tablet	918.81
28.7	Newton, 3.0 mi N. of along Iowa Hwy. 14; T. 80 N., R. 19 W., near cor. secs. 9, 10, 15 and 16; about 270 ft W. of sec. cor. along private rd. to farm; on small crest 24 ft S. of private rd. about 1.5 ft below center of rd., standard tablet set in top of concrete post stamped "58 HB 1964"	915.651
50 30.0	UE, chiseled square on W. headwall of concrete culvert; 15 ft W. and 4.4 ft below center of rd.; Dr. 8.4 ft below UE	862.91
52 31.0	UE, chiseled square on N. headwall of bridge	875.95

NEWTON QUADRANGLE
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<u>LINE 2 (Cont'd)</u>	<u>NEWTON QUAD. - 98</u>	<u>Feet</u>
1 54 31.9 UE, painted square on W. end of drain; tile under sidewalk to house		952.9
31.9 Newton, 3.0 mi N. and 1.5 mi W. of; Tp. 80 N., R. 19 W., near NW. corner of SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, 58 ft W. and 12.7 ft S. of SW. corner of chicken house, 322.6 ft W. of center of NW.-SE. rd., 42 ft S. of center of field entrance W.; 2.4 ft E. of N.-S. fence; WSW. of farmhouse; approx. 150 ft, on property owned by Henry J. Bohne; a standard tablet stamped "ET 2 DB 1964" 2 ft W. of metal witness post		957.598
56 32.6 UE 2 JHB C, 3.0 mi E. of tablet; about 0.5 mi E. and 0.25 mi S. of cor. secs. 11, 12, 13 and 14; 24 ft N. and 6 ft W. of center of T-rd. S.; a chiseled square on W. end of 18-in. metal culvert; under rd. to field; 0.8 ft lower than center of T-rd. S.		881.19

LINE 3

<u>EAST FROM NEAR CENTER OF QUAD. (C.H. Baker, 1964; CV 1704)</u>	<u>NEWTON QUAD. - 98</u>	
2 4 0.0 UE, chiseled square in NW. headwall of bridge; 8-in. above center of rd.; 10 ft N. of center of rd.		770.74
1.0 UE, spike nail in top of wooden piling; 10 ft E. and 10 ft S. of E. bridge		771.77
5 1.8 Reference mark, 38 ft W. of tablet; along fence; spike in pole		885.95
1.8 Newton, 4.0 mi S. of; about 1.5 mi E. of junction of State Hwy. 14 and Co. Rd. 1B about 0.25 mi E. of T-rd. N.; on crest of hill; 54 ft W. of field entrance N., 30 ft N. of center of rd., 1.5 ft S. of fence; standard tablet set in top of concrete post and flush with ground; stamped "59 HB 1964"		885.651
7 2.6 UE, chiseled square in S. headwall of culvert; 295 ft W. and 15 ft S. of center of crossroads; at angle in N.-S. rd., 1.3 ft below center of rd. at culvert		864.74
8 3.4 UE, chiseled square in headwall of small culvert; 15 ft N. and 2 ft below center of rd.		820.43
9 4.1 UE, center of T-rd. S.		830.9
10 5.1 "54 HB 1964" (described in Line 2)		922.419

LINE 4

<u>EAST ALONG NORTH BORDER THENCE SOUTH THRU CENTER (J.H. Betz, 1964; CV 1706)</u>	<u>NEWTON QUAD. - 98</u>	
1 5 0.0 Colfax, about 5.0 mi N. along State Hwy. 64 from; about 153 ft NW. of Phillips Service Station, 40 ft SW. of SW. corner of Walter Ellis home, 29 ft E. of center of hwy.; 42 ft W. of SW. corner of yard fence; a US&GS standard disk stamped "E 10 1933" set in top of concrete post		936.160
0.6 UE, 0.25 mi N. and 0.5 mi E. of; center of State Hwy. 117; at crossroads; a copper nail and washer		880.42
0.9 Colfax, 3.85 mi N. on hwy. 117 from junction of hwy. 117 and interstate Hwy. 80 and 0.25 mi W.; Tp. 80 N., R. 21 W., near NW. cor. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14; 30 ft S. of center of E.-W. rd., 10 ft E. of center of field entrance S.; 2 ft NE. of gate post; in E.-W. fence; opposite barn lot drive N. a standard tablet stamped "ET 3 DB 1964" set in concrete post		928.332
9 1.9 UE, 0.25 mi N. and 1.3 mi E. from tablet; 52 ft E. and 13 ft N. of center of bridge on NE. wingwall of bridge; a chiseled square; 0.3 ft higher than center of bridge; water 11 ft lower than center of bridge		800.47
11 2.6 Mingo, 1.0 mi S. and 3.6 mi E. of; Tp. 80 N., R. 20 W., approx. 0.3 mi W. of cor. secs. 7, 8, 17 and 18; 370 ft W. of a small bridge; 40 ft S. of center of rd., 1 ft N. of a fence line; 47 ft W. of a pole; 1 ft N. of a metal witness post; post projects 0.3 ft and is 5 ft lower than center of rd.; a standard tablet stamped "1 JHB 1964"		817.747
12 2.7 Reference mark, 370 ft E. of tablet; 21 ft W. and 71 ft N. of center of small bridge over drain; copper nail and washer in NW. bridge piling; 0.6 ft higher than center of bridge; (water 13.5 ft lower than center of bridge)		819.86

LINE 4 (Cont'd)

NEWTON QUAD. - 98

Feet

- 14 3.6 UE JHB 1 A, 1.0 mi E. of tablet; cor. secs. 8, 9, 16 and 17; 44 ft S. and 36 ft W. of center of crossroads; in wooden corner post; rail spike; 0.6 ft below crossroads 917.57
- 18 4.4 Reference mark, 33 ft SW. of tablet; top of SW. corner of bridge railing; a chiseled square 843.56
- 4.4 Mingo, 1.0 mi S. and 5.6 mi E. of; T. 80 N., R. 20 W., about 0.25 mi W. of cor. secs. 9, 10, 15 and 16; at bridge over Fullington Creek; 12 ft N. and 12 ft E. of center of bridge; top of NE. corner of bridge railing; about 2.4 ft higher than rd.; a standard tablet stamped "2 JHB 1964" (water 13.2 ft lower 6/17/64) 843.772
- 19 4.8 UE 2 JHB A, 0.45 mi E. of tablet; about 0.2 mi E. of cor. secs. 9, 10, 15 and 16; 17 ft N. of center of rd., about 2 ft lower than rd., top center of headwall of concrete culvert; a chiseled square 878.33
- 21 6.0 UE 2 JHB B, 1.6 mi E. of tablet; about 0.3 mi E. of cor. secs. 10, 11, 14 and 15; 14 ft N. and 20 ft E. of center of bridge over Prairie Creek; a chiseled square; in top of NE. bridge railing; about 1.5 ft higher than center of bridge (water 17.3 ft below UE) 826.34
- 24 7.4 UE 2 JHB C, 3.0 mi E. of tablet; about 0.5 mi E. and 0.25 mi S. of cor. secs. 11, 12, 13 and 14; 24 ft N. and 6 ft W. of center of T-rd. S.; a chiseled square on W. end of 18-in. metal culvert under rd. to field; 0.8 ft lower than center of T-rd. S. 881.19
- 25 8.1 UE 2 JHB D, 3.0 mi E. and 0.7 mi S. of tablet; about 0.3 mi N. of approx. quarter cor. between secs. 13 and 24; 19 ft N. and 16 ft E. of center of stall wooden bridge; a copper nail and washer set in top of NE. piling, 0.8 ft lower than center of bridge (water 16 ft lower than bridge) 832.27
- 27 9.1 Newton, 1.5 mi N. and 2.3 mi W. of; T. 80 N., R. 19 W., about 0.25 mi N. and 0.25 mi W. of cor. secs. 19, 24, 25 and 30; 34 ft N. and 18 ft W. of center of T-rd. S.; 5 ft S. and 19 ft W. of 18-in. oak tree; about 0.7 ft lower than T-rd. S.; a standard tablet stamped "3 JHB 1964" 938.935
- 28 9.1 Reference mark, 55 ft S. and 7 ft W. of tablet; 31 ft S. and 22 ft W. of center of T-rd. S.; a RR. spike in 1 1/4-in. fence corner post; 0.4 ft lower than T-rd. S. 939.34
- 29 10.0 UE 3 JHB A, 0.9 mi S. of tablet; approx. quarter cor. between secs. 25 and 30 18 ft E. and 1.4 ft lower than center of rd. opposite; a chiseled square on 36-in. metal culvert 915.25
- 30 10.3 UE 3 JHB B, 1.8 mi S. of tablet; center of U.S. Hwy. 6 at N.-S. County Rd. 919.7
- 32 12.1 Newton, 1.2 mi S. and 2.0 mi W. of; 2.0 mi W. of junction of State Hwy. 14 and Interstate Hwy. 80, T. 79 N., R. 19 and 20 W., approx. 0.4 mi S. of cor. secs. 1, 6, 31 and 36; set in NE. curbing of concrete bridge over Interstate Hwy. 80; 115.5 ft N. and 12 ft E. of center of bridge; standard tablet stamped "4 JHB 1964" 903.733
- 12.1 Reference mark, 232 ft S. and 25 ft W. of tablet; in SW. curbing of concrete bridge over Interstate Hwy. 80; a chiseled square 907.72
- 33 12.4 UE 4 JHB A, 0.25 mi S. of tablet; at T-rd. E., 17 ft N. and 21 ft E. of cor. secs. 1, 6, 31 and 36; a chiseled square on W. end of concrete headwall; 0.2 ft higher than center of T-rd. E. 871.34
- 35 13.6 UE 4 JHB B, 1.25 mi S. and 0.25 mi W. of tablet; at grade crossing of C., R.I. & P. RR. tracks, a copper nail and washer in center of crossing 818.51
- 36 14.4 Reference mark, 57 ft N. and 4 ft E. of tablet; 25 ft N. and 25 ft E. of center of gate; a chiseled square; on pump house base 772.70

LINE 4 (Cont'd)

NEWTON QUAD. - 98

Feet

1 36 14.4	Newton, 3.2 mi S. and 2.2 mi W. of; Tp. 79 N., R. 20 W., about 0.25 mi W. of quarter cor. between secs. 13 and 18; located at the Metz Pumping Station; 14 ft S. and 165 ft W. of SW. corner of main bldg.; 33 ft S. and 22 ft E. of center of gate; 57 ft S. and 4 ft W. of W. side of pump house; 22 ft E. of fence, 13 ft S. and 13 ft E. of 10-in. pine tree; standard tablet stamped "5 JHB 1964"	767.143
64 15.8	UE 5 JHB Z, copper nail and washer in SW. bridge piling; 13 ft S. and 44 ft W. of center of bridge	782.07
65 16.6	UE 5 JHB Y, UE, 2.18 mi E. of tablet; a chiseled square; center of Hwy. 14	879.85
67 18.6	UE, chiseled square in NW. headwall of bridge; 8-in. above center of rd., 10 ft N. of center of rd.	770.74
68 19.2	UE, top of right-of-way marker about 70 ft NE. of bend in rd., Rd. at curve	763.94
69 20.2	UE, in SE. corner of intersection, chiseled square on E. end of 20-in. metal culvert	774.71
70 20.7	UE 5 JHB A, cor. secs. 19, 24, 25 and 30; at small bridge on NE. piling; a copper nail and washer	770.97
40 21.7	Newton, 6.0 mi S. and 2.0 mi W. of; Tps. 79 N., R. 19 and 20 W., 258 ft N. and 36 ft E. of cor. secs. 25, 30, 31 and 36; 4 ft N. and 3 ft E. of fence corner; set in pasture; post projects 0.3 ft and is 2.3 ft higher than rd. opposite; standard tablet stamped "6 JHB 1964"	880.663
22.0	Monroe, approx. 6.0 mi N. on State Hwy. 14; W. on Co. "E" 1.3 mi., T. 79 N. R. 20 W., near NE. cor. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36; 31 ft S. of center of E.-W. rd., 14 ft W. of center of drive S., 4 ft N. of E.-W. fence; a standard tablet set in concrete post; stamped "ET 5 DB 1964"	893.566
41 21.7	Reference mark, 41 ft N. and 32 ft W. of cor. secs. 25, 30, 31 and 36; 11 ft N. of fence corner set in 10-in. brace post; a RR. spike	864.23
43 22.5	UE 6 JHB A, 0.25 mi N. and 0.25 mi E. of; cor. secs. 1, 2, 31 and 36; 0.9 mi S. of tablet; at small bridge; a copper nail and washer located in top of SE. piling 27 ft S. and 14 ft E. of center of bridge; 0.3 ft higher than bridge	795.07
44 23.1	UE 6 JHB B, 0.5 mi S. and 0.25 mi E. of; cor. secs. 1, 2, 31 and 36; 22 ft S. and 59 ft E. of T-rd. E.; a RR. spike in 14-in. elm tree; same elev. as T-rd. E.	897.65
46 24.3	Reference mark, 61 ft N. of tablet; in power pole; 31 ft N. and 28 ft E. of center of crossroad; a RR. spike	879.89
24.3	Monroe, 1.0 mi W. and 4.0 mi N. of; T. 78 N., R. 20 W., 30 ft S. and 25 ft E. of cor. secs. 1, 2, 11 and 12; set in top of center of concrete headwall; 1.7 ft lower than crossroads; a standard tablet stamped "7 JHB 1964"	901.667
47 25.3	UE 7 JHB A, 1.0 mi S. of tablet; cor. secs. 11, 12, 13 and 14; 24 ft N. and 18 ft W. of center of crossroad; 1.3 ft lower than crossroad; a chiseled square on S. end of concrete culvert	886.53
48 26.0	UE 7 JHB B, 1.6 mi S. of tablet; 0.3 mi N. of cor. secs. 13, 14, 23 and 24; on concrete bridge over Buck Creek; 11 ft N. and 9.5 ft E. of center of bridge; a chiseled square in NE railing; 2.7 ft higher than center of bridge; Water 11 ft lower than bridge floor	830.00
49 26.7	Monroe, 1.0 mi W. and 1.5 mi N. of; Tp. 78 N., R. 20 W., 0.4 mi S. of cor. secs. 13, 14, 23 and 24; at "Y" Rd. N.; 32 ft N. and 32 ft E. of point of intersection; 6 ft N. and 2 ft W. of a 4-in. metal fence post; post is set flush in the ground; 0.7 ft lower than Y-rd. N.; a standard tablet stamped "8 JHB 1964"	920.370
50 26.8	Reference mark, 70 ft N. and 38 ft W. and 88 ft N.W. of tablet; set in 6 x 8 in. corner post; a RR. spike	920.74

LINE 4 (Cont'd)

NEWTON QUAD. - 98

Feet

- 1 51 27.5 UE 8 JHB A, 0.7 mi SE. of tablet; at T-rd. intersection; 8 ft S. and 19 ft E. of T-rd.; 0.1 ft higher than T-rd. W.; a chiseled cross; in center of concrete culvert headwall 914.06
- 52 27.7 Monroe at; about 125 yards NW. along track from C., R.I. & P. RR. station, 58 ft NW. along track and 39.5 ft W., 45.5 ft N. and 173 ft W. of intersection of Marion and Jasper Streets, and 4 ft NE. of pole; a USC&GS standard disk stamped "C 5 1930" and set in top of a concrete post 920.064

LINE 5

SOUTHEAST IN SOUTH PORTION OF QUAD. (J.H. Betz, 1964; CV 1706)

NEWTON QUAD. - 98

- 1 59 0.0 USC&GS "C 5 1930" (described in Line 4) 920.064
- 60 2.2 Monroe, 1.7 mi SE. of; near the C., R.I. & P. RR., near milepost 330, and opposite Station 876, which is stamped in the S. edge of the paving slab of Hwy. 163, and in NE. end of culvert under hwy., a USC&GS and State Survey bolt set in concrete "911" (NOTE: USC&GS elev. of 910.884 could not be reconciled. This elev by U.S.G.S.) 908.426

KNOXVILLE QUAD. - 75

- 61 3.2 Monroe, about 3.2 mi SE. along the C. R.I. & P. RR. from; near a farm rd. crossing, 87 ft E. of State Hwy. 163 at Station 84 and 22 ft SW. of center of track; a USC&GS standard disk stamped "D 5 1930" and set in top of a concrete post 902.360

LINE 6

SOUTH IN SOUTH CENTRAL PORTION (J.H. Betz, 1964; CV 1706)

NEWTON QUAD. - 98

- 2 2 0.0 USC&GS "C 5 1930" (described in Line 4) 920.064
- 3 0.8 UE C 5 A, 0.8 mi S. of disk; 33 ft S. and 33 ft W. of center of T-rd. W.; a copper rivet and washer on the top center of concrete culvert headwall; stamped "IHC BM" 914.97

KNOXVILLE QUAD. - 75

- 4 1.9 UE C 5 B, about 2.0 mi S. from disk; 25 ft W. of center of Hwy. 14; a chiseled square in top center of 12 x 12 box culvert under State Hwy. 14; 12.1 ft lower than rd. opposite; 823.60
- 5 2.5 UE C 5 C, about 2.5 mi S. of; Tp. 77 N., Rs. 19 and 20 W., approx. $\frac{1}{2}$ cor. between secs. 7 and 12; a chiseled square; center of State Hwy. 14 at crossroad 876.26
- 6 3.0 Monroe, 3.0 mi S. of; Tp. 77 N., Rs. 19 and 20 W., cor. secs. 7, 12, 13 and 18; 216 ft S. and 70 ft W. of T-rd. W.; 1 ft E. of fence; a standard tablet stamped "9 JHB 1964" and set in top of a concrete post 896.106

LINE 7

SOUTH ALONG WEST BORDER (J.H. Betz, 1964; CV 1706)

NEWTON QUAD. - 98

- 3 7 0.0 Prairie City, about 0.4 mi E. along the C. R.I. & P. RR. from; about 550 ft E. of street crossing; near schoolhouse; about 75 ft E. of a power transmission line pole; at a curve in row of poles and 41 ft N. of the center of track; a USC&GS standard disk stamped "Y 4 1930" set in top of concrete post 926.130
- 8 1.3 UE Y 4 A, T. 78 N., R. 21 W., about 1.3 mi S. of tablet; along Co. Hwy. "D" cor. secs. 1, 2, 11 and 12; 33 ft S. and 42 ft W. of crossroad; a chiseled square on top of concrete wall at fence corner 927.25

8
 NEWTON QUADRANGLE
 98 - IOWA

<u>LINE 7 (Cont'd)</u>	<u>NEWTON QUAD. - 98</u>	<u>Feet</u>
3 9 2.2 UE Y 4 B, about 2.2 mi S. of disk; a chiseled square on NW. curbing of small bridge over Prairie Creek		869.98
10 3.2 Reference mark, 460 ft S. of tablet; on top of E. end of a 5 ft concrete culvert; a chiseled square		850.94
11 3.3 Prairie City, 3.3 mi S. of; T. 78 N., R. 21 W., cor. secs. 13, 14, 23 and 24; 125 ft N. and 48 ft E. of center of Hwy. at sec.-line fence; 41 ft N. and 48 ft E. of drive to farm W.; 2 ft W. of right-of-way fence; 2 ft W. of metal witness post; a standard tablet stamped "19 JHB 1964" set in concrete post		863.862
12 4.3 UE 19 JHB A, Tp. 78 N., R. 21 W., 1.0 mi S. of tablet; cor. secs. 23, 24, 25 and 26; 24 ft N. and 48 ft W. of crossroad; a chiseled square on N. end of 24-in. concrete culvert		861.75
13 5.3 UE 19 JHB B, T. 78 N., R. 21 W., about 2.0 mi S. of tablet; cor. secs. 25, 26, 35 and 36; 64 ft S. and 51 ft W. of center of crossroads a chiseled square on bottom step of Church of Brethern		915.20
15 6.9 Reference mark, T. 77 N., R. 21 W., quarter cor. between secs. 1 and 2; S. and W. of crossroad; a chiseled square on bottom step of front steps of Pleasant Hill Methodist Church		871.92
6.9 Prairie City, 6.0 mi S. of; T. 77 N., R. 21 W., approx. quarter cor. secs 1 and 2; 258 ft S. and 37.3 ft E. of crossroad; on a cut; 1.7 ft W. of N.-S. fence and 1.7 ft W. of metal witness post in fence line; a standard tablet stamped "20 JHB 1964" and set in top of concrete post; 12.5 ft higher than crossroad		880.598
17 8.0 UE 20 JHB A, 1.1 mi S. of tablet; a chiseled square on SE. curbing of small bridge		756.09

KNOXVILLE QUAD. - 75

18 8.6 USC&GS and State Survey "240" T. 77 N., R. 21 W., approx. center of sec. 11 in front yard of property owned by Mr. Harry Town, in 1964; 43 ft S. and 6 ft E. of SE. corner of house; 18 ft W. of black locust tree; and set in top of a concrete post and stamped "240 Iowa" (This B.M. will be covered by the flood Pool of the Red Rock dam) (reservoir 725 flood pool 780) elev. by U.S.G.S.	762.931
19 8.7 UE 240 A, 0.15 mi W. of tablet; at T-rd. S.; leading to Percy, 32 ft N. and same elev as E.-W. of T-rd. S.; a RR. spike in wooden fence post	751.12

MILO QUAD. - 76

20 9.8 Percy, 0.5 mi N. and 1.0 mi W. of; Tp. 77 N., R. 21 W., approx. center of sec. 10, 545 ft E. and 26 ft N. along rd. from center of Wabash RR. tracks; 26 ft N. of center of rd., 1.4 ft N. of right-of-way fence, 24 ft E. of 30-in. cottonwood tree; 1.4 ft N. of metal witness tag; 1.7 ft higher than rd. opposite; a standard tablet stamped "21 JHB 1964" set in top of concrete post. (This B.M. will be destroyed by the flood control pool of Redrock Dam, flood pool 780 - reservoir 725)	763.870
9.8 Reference mark, 24 ft W. of tablet; a RR. spike in E. side of 30-in. cottonwood tree	765.25