

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

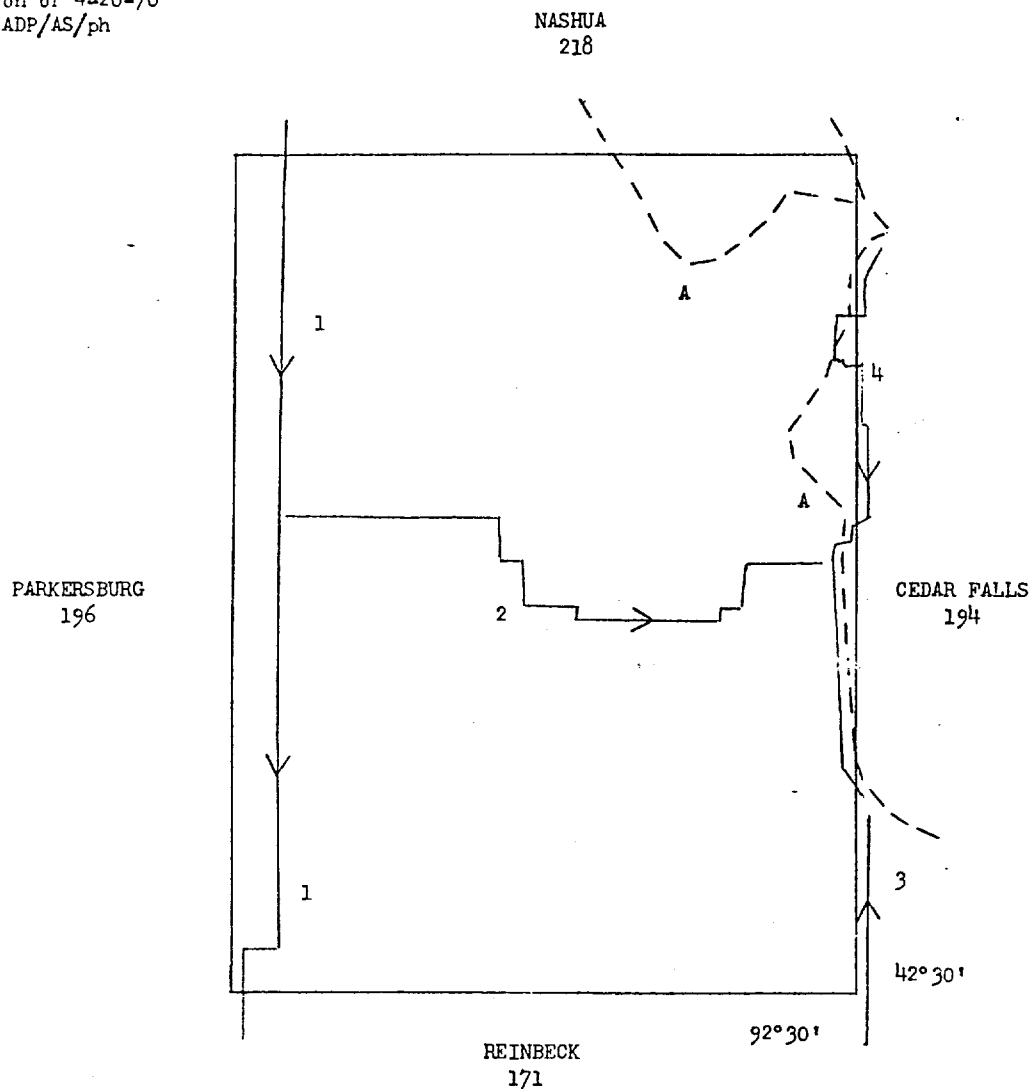
THIRD ORDER LEVELS  
SEA LEVEL DATUM OF 1929

Final Adjustment of 1969

Butler, Grundy, Bremer, and  
Blackhawk Counties

Edition of 4-20-70  
PR: ADP/AS/ph

SHELL ROCK QUADRANGLE  
195 - IOWA  
N4230-W9230/15  
DIAGRAM NK 15-5  
WATERLOO



USC&GS VERTICAL CONTROL DATA

A. Quadrangle No. 420924

LINE 1 (Cont'd)

FEET

SHELL ROCK QUAD.- 195

- |   |    |      |                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
|---|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1 | 62 | 13.1 | Reference Mark, 755 ft SSE. of BM; 10.5 ft W. and 0.7 ft higher than rd., top of N. end of W. concrete curb of bridge; chiseled square, painted                                                                                                                                                                                                                                                                         | 926.71   |
|   | 63 | 14.1 | UE 72 PJH A; about 1.15 mi S. along paved rd. from BM; 36 ft S., 27 ft E., and 2.3 ft lower than crossroads, top of E. end of a 2.5 ft cement pipe culvert, chiseled square, painted                                                                                                                                                                                                                                    | 934.59   |
|   | 64 | 15.1 | UE 72 PJH B; about 2.15 mi S. along paved rd. from BM; cor. secs. 3, 4, 9 and 10, at center of crossroads (paved), painted                                                                                                                                                                                                                                                                                              | 988.8    |
|   | 65 | 16.0 | Reference Mark, 130 ft NNW. of BM; 20 ft E. of rd., top of E. end of a 3.5 ft cement pipe culvert; chiseled square, painted                                                                                                                                                                                                                                                                                             | 1019.76  |
|   | 66 | 16.0 | Parkersburg, 2.5 mi N. and 3.0 mi E. of; T. 90 N., R. 16 W., near the SE. cor. of secs. 10; 390 ft N., 50 ft E., and 3.6 ft lower than crossroads; 184 ft N. of a drive E. to farmhouse, 9.0 ft N. and 1.0 ft W. of a fence cor. N.-W., 9.0 ft N. and 3.0 ft E. of a fence cor. S.-E., 2.0 ft S. of a witness sign; standard tablet stamped "73 PJH 1969", painted                                                      | 1024.641 |
|   | 66 | 17.1 | UE 73 PJH A; about 1.1 mi S. along paved rd. from BM; cor. secs. 15, 16, 21 and 22; at center of crossroads, painted square                                                                                                                                                                                                                                                                                             | 988.3    |
|   | 67 | 18.1 | UE 73 PJH B; about 2.1 mi S. along paved rd. from BM; at center of T-rd. E.; painted square, painted                                                                                                                                                                                                                                                                                                                    | 922.3    |
|   | 68 | 18.4 | UE 73 PJH C; about 2.4 mi S. along paved rd. from BM; 11 ft W. and 0.8 ft higher than rd., on SW. wingwall of bridge, on concrete curb; chiseled square, painted                                                                                                                                                                                                                                                        | 923.33   |
|   | 68 | 19.1 | Reference Mark, 250 ft NNW. of BM; 11 ft W. of rd., top of S. end of W. concrete curb, of a concrete bridge, chiseled square, painted                                                                                                                                                                                                                                                                                   | 930.69   |
|   | 69 | 19.1 | Parkersburg, 3.5 mi E. along U. S. Hwy. 20 from; T. 90 N., R. 16 W., near the SW. cor. of sec. 27; 193 ft N., 49.5 ft E., and 4.7 ft lower than crossroads (N. paved - S. gravel and Hwy. 20), 159 ft N. and 1.0 ft W. of a right-of-way fence cor., 6.5 ft N. and 2.5 ft E. of a power pole, painted "BM", 6.0 ft N. of a guy wire, standard tablet stamped "74 PJH 1969"<br>(NOTE: BM is 4.0 ft S. of a witness sign) | 923.590  |
|   | 69 | 20.2 | UE 74 PJH A; about 1.0 mi S. along gravel rd. from BM, at center of crossroads (gravel), painted                                                                                                                                                                                                                                                                                                                        | 959.5    |
|   | 70 | 21.1 | UE 74 PJH B; about 2.0 mi S. along gravel rd. from BM; at center of crossroads (gravel), painted                                                                                                                                                                                                                                                                                                                        | 1004.8   |
|   | 71 | 21.2 | UE 74 PJH C; about 2.1 mi S. along gravel rd. from BM, at grade crossing, top of N. rail at center of rd., painted square, painted                                                                                                                                                                                                                                                                                      | 988.85   |
|   | 71 | 22.1 | UE 74 PJH D; about 3.0 mi S. along gravel rd. from BM; at center of crossroads, a painted square, painted                                                                                                                                                                                                                                                                                                               | 1007.15  |
|   | 72 | 22.6 | Parkersburg, 4.0 mi S. and 3.0 mi E. of; T. 89 N., R. 16 W., near quarter cor. between secs. 15 and 16, 1.5 ft S., 54 ft W., and 3.1 ft lower than rd. at quarter line fence W., 20 ft W. of right-of-way fence, 11 ft S. and 22.5 ft E. of a witness sign fastened to a power pole, standard tablet stamped "75 PJH 1969", painted                                                                                     | 1027.276 |
|   | 72 | 23.1 | UE 75 PJH A; about 0.5 mi S. along gravel rd. from BM, at center of crossroads (gravel), painted                                                                                                                                                                                                                                                                                                                        | 1053.9   |

LINE 1 (Cont'd)

FEET

SHELL ROCK QUAD. - 195

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|----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1  | 73 24.1 | UE 75 PJH B; about 0.5 mi S., thence 1.0 mi W. along gravel rd. from BM, cor. secs. 16, 17, 20 and 21; at center of crossroads (gravel), painted                                                                     | 1055.5  |
| 74 | 24.6    | UE 75 PJH C; about 1.0 mi S. and 1.0 mi W. of BM; quarter cor. between secs. 20 and 21; 12 ft W. and 3.5 ft higher than rd., top, in center of W. headwall of a concrete bridge, chiseled square, painted            | 1032.35 |
| 75 | 25.1    | UE 75 PJH D; about 1.5 mi S. and 1.0 mi W. of BM; cor. secs. 20, 21, 28 and 29; 33 ft N., 13 ft W., and 0.3 ft higher than crossroads, top, in center of W. headwall of a concrete culvert; chiseled square, painted | 1035.30 |

REINBECK QUAD. - 171

- |    |      |                                                                                                                                                                             |         |
|----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 76 | 26.1 | UE 66 PJH B; about 2.0 mi W. along gravel rd. from BM; 37 ft S., 19 ft E., and 3.0 ft lower than crossroads, top of E. end of a 3.0 ft cement pipe culvert, chiseled square | 1037.71 |
|----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

LINE 2

P. J. Hohenberger, 1969; Book CV-2436

SHELL ROCK QUAD. - 195

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|----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1  | 78 0.0 | UE 72 PJH A (Described in Line 1)                                                                                                                                                                                                                                                                                                                                             | 934.59  |
| 78 | 1.0    | UE 72 PJH AA; about 1.0 mi E. along gravel rd. from UE 72 PJH A; cor. secs. 2, 3, 34 and 35, at center of T-rd. S. (gravel), painted                                                                                                                                                                                                                                          | 917.8   |
| 79 | 1.8    | UE 72 PJH BB; about 1.75 mi E. along gravel rd. from "UE 72 PJH A", at center of T-rd. S. (gravel), painted                                                                                                                                                                                                                                                                   | 909.4   |
| 80 | 2.1    | Reference Mark, 220 ft ENE. of BM; 10 ft N. and 1.3 ft lower than rd., at left upstream batter post, bottom rivet, top of N. one of a set of three rivets, painted                                                                                                                                                                                                            | 913.03  |
| 80 | 2.1    | Parkersburg, 4.5 mi N. and 5.0 mi E. of; T. 90 N., R. 16 W., near the NW. cor. of sec. 2; 41 ft S., 170 ft W., and 6.2 ft lower than rd. at W. end of a long steel bridge, 9.5 ft S. and 1.5 ft W. of a T-fence S., 101 ft N. and 2.0 ft E. of a 3.0 ft (diameter) oak tree, witness sign is 1.0 ft N. of T-fence S. (described above); standard tablet stamped "77 PJH 1969" | 907.941 |
| 80 | 3.0    | UE 77 PJH A; about 0.9 mi E. along gravel rd. from BM; 22.5 ft N., 200 ft W., and 0.5 ft lower than T-rd. N., top of N. end of a 2.0 ft cement pipe culvert; chiseled square, painted                                                                                                                                                                                         | 907.57  |
| 2  | 1 4.5  | UE 77 PJH B; about 2.5 mi E. along gravel rd. from BM; at quarter cor. between secs. 5 and 32, at center of crossroads, painted square, painted                                                                                                                                                                                                                               | 905.44  |
| 2  | 4.9    | New Hartford, 4.75 mi N. and 1.25 mi W. of; T. 90 N., R. 15 W., near center of sec. 5, between two long concrete bridges, 19.5 ft S., 35.5 ft W. and 0.8 ft lower than rd. at S. end of bridge, 7.0 ft N. and 20 ft E. of a 2.5 ft (diam.) oak tree, 14.5 ft N. of a field entrance, 1.0 ft N. of a witness sign; standard tablet stamped "78 PJH 1969", painted              | 905.100 |
| 3  | 4.9    | Reference Mark, 370 ft SSE. of BM, on NE. wingwall of bridge, on concrete curb, chiseled square, painted                                                                                                                                                                                                                                                                      | 908.49  |
| 3  | 5.5    | UE 78 PJH A; about 0.6 mi S. along paved rd. from BM; quarter cor. between secs. 5 and 8, at center of T-rd. N. (gravel), painted                                                                                                                                                                                                                                             | 905.8   |
| 4  | 6.4    | UE 78 PJH B; about 1.35 mi generally S. along paved rd. from BM, N. sixteenth cor. between secs. 8 and 9, at center of T-rd. E., painted square, painted                                                                                                                                                                                                                      | 904.41  |

LINE 1

FEET

P. J. Hohenberger, 1969; Book CV-2436

NASHUA QUAD. - 218

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|---|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1 | 54 | 5.4 | UE 76 PJH B; about 1.2 mi S., thence 0.25 mi W. along gravel rd. from BM, at center of T-rd. S. (gravel), painted                                                                                                                                     | 1045.0  |
|   | 54 | 5.9 | UE 76 PJH C; about 1.2 mi S., thence 0.25 mi W., thence 0.5 mi S. along gravel rd. from BM; cor. secs. 21, 22, 27 and 28, 23 ft N., 27 ft W., and 3.4 ft lower than T-rd. W., top of N. end of a 2.0 ft cement pipe culvert; chiseled square, painted | 1039.13 |
|   | 55 | 6.9 | Reference Mark, at center of crossroads; a chiseled square, painted                                                                                                                                                                                   | 1035.01 |

SHELL ROCK QUAD. - 195

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|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 56 | 6.9  | Allison, Butler County, 0.6 mi S. and 3.25 mi E. of; T. 92 N., R. 16 W., near the NW. cor. of sec. 3, 80 ft S., 174 ft W., and 9.1 ft lower than crossroads (R.M.), 8.5 ft S. and 37.5 ft E. of a power transmission line pole, 1.5 ft N. and 9.0 ft W. of a right-of-way fence cor. W. and SE., 1.5 ft W. of a witness sign, standard tablet stamped "70 PJH 1969", painted                                                                         | 1025.885 |
| 56 | 7.9  | UE 70 PJH A; about 1.0 mi S. along gravel rd. from BM at center of crossroads (gravel), painted                                                                                                                                                                                                                                                                                                                                                      | 1009.7   |
| 57 | 8.2  | UE 70 PJH B; about 1.25 mi S. along gravel rd. from BM; 11 ft E. and 0.7 ft higher than rd., top of S. end of E. concrete curb of a small bridge; chiseled square, painted                                                                                                                                                                                                                                                                           | 992.95   |
| 57 | 9.0  | UE 70 PJH C; about 2.0 mi S. along gravel rd. from BM, at center of crossroads, (gravel), painted                                                                                                                                                                                                                                                                                                                                                    | 1027.2   |
| 58 | 10.1 | Allison, Butler County, 3.6 ft S. and 3.25 mi E. of; T. 91 N., R. 16 W., near the NE. cor. of sec. 16, 347.5 ft S., 49 ft W., and 15.1 ft lower than crossroads, 111 ft S. and 5.5 ft E. of SE. cor. of a house, 5.0 ft S. and 1.0 ft E. of fence cor., 1.5 ft N. of a witness sign, standard tablet stamped "71 PJH 1969", painted                                                                                                                  | 982.763  |
| 59 | 10.1 | Reference Mark, 130 ft NNE. of BM; 20.5 ft E. of center of E. face of house, 24 ft W. of rd., at NE. cor. of bottom step at E. end of sidewalk; chiseled square, painted                                                                                                                                                                                                                                                                             | 990.89   |
| 59 | 11.1 | UE 71 PJH A; about 1.0 mi S. along paved rd. from BM; at center of crossroads, painted square, painted                                                                                                                                                                                                                                                                                                                                               | 976.3    |
| 60 | 12.2 | UE 71 PJH B; about 2.1 mi S. along paved rd. from BM; 11 ft E. and 0.4 ft higher than rd., top of N. end of E. concrete curb of bridge; chiseled square, painted                                                                                                                                                                                                                                                                                     | 925.59   |
| 61 | 12.6 | UE 9116-28 SE. (1) W. fork cedar about 2.5 mi S. along paved rd. from BM; 10 ft S., 33 ft W., and 1.5 ft lower than crossroads, at a steel bridge, at left downstream batter post, bottom rivet, chiseled plus sign, painted                                                                                                                                                                                                                         | 923.37   |
| 62 | 13.0 | Parkersburg, 5.65 mi N. and 3.0 mi E. of; T. 91 N., R. 16 W., 0.15 mi N. of cor. secs. 27, 28, 33 and 34, 0.35 mi S. of crossroads, 745 ft N. of N. end of a long concrete bridge across W. fork Cedar River, 118 ft S., 51 ft E., and 3.2 ft lower than rd. at field entrance E., 135 ft S., and 0.5 ft E. of T-fence E., 5.0 ft N. and 1.5 ft E. of a power pole, painted "EM", 2.0 ft S. of a witness sign; standard tablet stamped "72 PJH 1969" | 917.812  |

LINE 2 (Cont'd)

FEET

SHELL ROCK QUAD. - 195

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|----|------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 2  | 5    | 7.0 | UE 78 PJH C; about 2.1 mi generally S. along paved rd. from BM; cor. secs. 8, 9, 16 and 17, at center of T-rd. E., painted circle, painted                                                                                                                                                                                                            | 904.87    |
| 6  | 8.0  |     | New Hartford, 3.25 mi N. and 0.25 mi E. of; T. 90 N., R. 15 W., cor. secs. 9, 10, 15 and 16, 32.5 ft N. and 42 ft E. of intersection of extended center of rd. at right angle curve, 41 ft S. and 103.5 ft E. of SE. cor. of a farmhouse, 3.0 ft E. of a power pole, painted "BM", 2.0 ft W. of a witness sign, standard tablet stamped "79 PJH 1969" | 898.740   |
| 7  | 8.0  |     | Reference Mark, 24 ft E. of BM; at SW. cor. of an octagonal concrete base (for corn crib) and projects 0.5 ft above ground; chiseled square, painted                                                                                                                                                                                                  | 899.11    |
| 7  | 8.2  |     | UE 79 PJH A; about 0.25 mi S. along gravel rd. from BM, at center of T-rd. E. (gravel), painted                                                                                                                                                                                                                                                       | 898.1     |
| 8  | 9.2  |     | UE 79 PJH B; about 0.25 mi S., thence 1.0 mi E. along gravel rd. from BM; N. sixteenth cor. between secs. 14 and 15, at center of crossroads (gravel), painted                                                                                                                                                                                        | 898.8     |
| 9  | 10.2 |     | UE 79 PJH C; about 0.25 mi S., thence 2.0 mi E. along gravel rd. from BM; N. sixteenth cor. between secs. 13 and 14, at center of T-rd. E. (gravel) painted                                                                                                                                                                                           | 896.0     |
| 10 | 11.3 |     | New Hartford, 3.0 mi N. and 3.25 mi E. of; T. 90 N., Rs. 14 and 15 W., near N. sixteenth cor. between secs. 13 and 18; 1.0 ft S., 49 ft E., and 1.4 ft higher than T-rd. W., 1.0 ft S. and 15 ft E. of a T-fence E., 2.0 ft W. of a witness sign; standard tablet stamped "80 PJH 1969", painted                                                      | 899.245   |
| 11 | 11.3 |     | Reference Mark, 300 ft S. of BM; 20 ft E. of rd., top of E. end of a 2.5 ft cement pipe culvert; chiseled square, painted                                                                                                                                                                                                                             | 892.05    |
| 11 | 12.2 |     | UE 80 PJH A; about 0.75 mi N. and E. along gravel rd. from BM; quarter cor. between secs. 7 and 18, center of T-rd. N. (gravel), painted                                                                                                                                                                                                              | 893.5     |
| 12 | 13.2 |     | New Hartford, 4.25 mi N. and 3.75 mi E. of; T. 90 N., R. 14 W., near quarter cor. between secs. 6 and 7, 93 ft N., 14 ft E., and 1.7 ft higher than T-rd. E., in concrete curb at SE. wingwall of a long bridge; a USC&GS and State Survey disk stamped "752", painted Elev. by USGS                                                                  | 890.668   |
| 13 | 13.2 |     | At Finchford, at quarter cor. between secs. 6 and 7, 38 ft S. and 34 ft E. of T-rd. E., 4.0 ft S. and 9.0 ft W. of a power pole, painted "BM", in concrete post set flush with ground; standard USC&GS and State Survey disk stamped "643", painted                                                                                                   | 886.828   |
| 13 | 13.9 |     | UE 80 PJH B; about 0.75 mi E. along paved rd. from USC&GS and State Survey disk, at center of a new concrete bridge; painted square, painted                                                                                                                                                                                                          | 884.47    |
| 14 | 15.0 |     | UE 80 PJH C; about 1.75 mi E. along paved rd. from USC&GS and State Survey disk, at center of crossroads, a painted square, painted                                                                                                                                                                                                                   | 918.23    |
| 15 | 15.1 |     | Janesville, 1.0 mi S. and 2.0 mi W. of; T. 90 N., R. 14 W., near quarter cor. between secs. 4 and 9; 31 ft S. and 31 ft W. of RR. crossing; 4 ft W. of a telephone pole, in a concrete post, a standard tablet stamped "TT 8 MWL 1961 893"                                                                                                            | 893.452 ✓ |

LINE 3

R. S. Heglin, 1961; Book CV-1382

WATERLOO QUAD. - 170

- |     |                                                                                                                                                            |        |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 8.6 | UE 12 RSH B; T. 89 N., R. 14 W., near cor. secs. 21, 22, 27 and 28; 5 ft N., 35 ft E. and 2.8 ft higher than rd. at fence W., rail spike in powerline pole | 941.22 |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

LINE 3 (Cont'd)

FEET

CEDAR FALLS QUAD. - 194

- 9.0 Reference Mark, 79 ft SE. of tablet; 34 ft S., 27 ft W., and 2.1 ft lower than rd. at drive W., rail spike in powerline pole 971.04
- 9.0 Hudson, 6.75 mi N. and 2.0 mi W. of; T. 89 N., R. 14 W., near S. sixteenth cor. between secs. 21 and 22; 27 ft N., 28 ft W. of driveway W.; a standard tablet set in a concrete post set flush with ground and stamped "ET 1 JA 1961 972" 971.993
- 9.4 UE 1 JA A; T. 89 N., R. 14 W., near cor. secs. 15, 16, 21 and 22; 49 ft N., 33 ft E., and 0.6 ft higher than crossroads; rail spike in powerline pole 960.29
- 10.4 UE 1 JA B; T. 89 N., R. 14 W., near cor. secs. 9, 10, 15 and 16; 38 ft S., 30 ft E., and 1.5 ft lower than crossroads; rail spike in powerline pole 968.17
- 11.4 Cedar Falls, 2.0 mi W. of; T. 89 N., R. 14 W., near cor. secs. 3, 4, 9 and 10; 271 ft S. and 35 ft W. of crossroads; 3 ft SE. of a fence cor., in a concrete post; a standard tablet stamped "TT 7 MWL 1961 976" 976.310
- 11.4 Reference Mark, 251 ft NNE. of tablet; 30 ft S., 36 ft E., and 2.8 ft higher than crossroads, rail spike in powerline pole 972.08
- 12.3 UE 7 WML A; T. 89 N., R. 14 W., near N. sixteenth cor. between secs. 3 and 4; 76 ft N., 13 ft E., and 0.3 ft lower than center of bridge over RR. tracks; chiseled square in curb of concrete bridge 951.67
- 12.8 Cedar Falls, about 3.1 mi NW. along the C. R.I. and P. RR. from the station at; 0.2 mi SE. of a house; 675 ft SE. of a RR. signal post; 318 ft SE. of a field rd. crossing; 32 ft E. of a telegraph pole; 45.6 ft NE. of the NE. rail and 1.8 ft SW. of the right-of-way fence; a USC&GS standard disk stamped "C 39 1934" set in top of a concrete post projecting about 6 in. above ground 867.295

LINE 4

R. S. Heglin, 1961; Book CV-1382

CEDAR FALLS QUAD. - 194

- 0.0 UE 4 RSH C; Waverly, 18 ft S., 6 ft W., and 0.6 ft lower than center of W. end of Chicago and Great Western RR. bridge over Cedar River; chiseled square, on top of S. wingwall Water elev. 904.7 921.24
- 0.9 Waverly, 0.4 mi N. of Illinois Central RR. depot, 46 ft N., 48 ft W., and 0.1 ft lower than crossing of C. & GW. RR. and 12th St. NW.; 3 ft SW. of brace pole for powerline pole; in concrete post; projecting 2 in. a standard tablet stamped "5 RSH 1961 920" 920.124
- 0.9 Reference Mark, 475 ft SSE. from tablet; 7 ft S., 6 ft E., and same elev. as center of small concrete bridge; chiseled square, in SE. cor. of deck of bridge 919.55
- 2.4 Reference Mark, 1028 ft N. of tablet; 32 ft N., 20 ft W., and 3.9 ft lower than T-rd. S., rail spike in powerline pole 946.01
- 2.6 Waverly, 1.25 mi S. and 0.5 mi W. of; T. 91 N., R. 14 W., near center of NW $\frac{1}{4}$  sec. 10; 994 ft S. of a T-rd. S.; 8 ft N. and 33 ft E. of rd. at field entrance E.; in a concrete post; a standard tablet stamped "TT 11 MWL 1961 952" 952.135
- 3.4 UE 11 MWL A; T. 91 N., R. 14 W., near W. sixteenth cor. between secs. 10 and 15; 33 ft N., 32 ft E., and same elev. as T-rd. N., rail spike in powerline pole 966.62
- 3.9 UE 11 MWL B; T. 91 N., R. 14 W., near E. sixteenth cor. between secs. 9 and 16; 31 ft N., 12 ft E., and 2.5 ft lower than center of rd. at SE. right-of-way fence along abandoned RR.; rail spike in telephone pole 933.33

LINE 4 (Cont'd)

FEET

SHELL ROCK QUAD. - 195

- 5.2 Reference Mark, 150 ft E. of tablet; 36 ft N., 12 ft E., and 0.9 ft higher than rd. at field entrance N., rail spike in gate post 930.09
- 5.2 Waverly, 3.0 mi S. and 2.0 mi W. of; T. 91 N., R. 14 W., near cor. secs. 16, 17, 20 and 21; about 500 ft E. of a T-rd. S., 36 ft N. and 138 ft W. of rd. at field entrance N.; in a concrete post; a standard tablet stamped "TT 10 MWL 1961 937" 937.045
- 6.3 UE 10 MWL A; T. 91 N., R. 14 W., near center of SE $\frac{1}{4}$  sec. 21; 28 ft N., 16 ft E. and 3.1 ft lower than rd. at curve and at center of three fences E., rail spike in power line pole 922.40

CEDAR-FALLS QUAD. - 194

- 7.3 UE 10 MWL B; T. 91 N., R. 14 W., near quarter cor. between secs. 27 and 28, 53 ft S., 48 ft W., and 3.5 ft higher than T-rd. W., rail spike in powerline pole 911.95
- 7.9 Waverly, 5.0 mi S. and 1.0 mi W. of; T. 91 N., R. 14 W., near cor. secs. 27, 28, 33 and 34; 140 ft S., and 49 ft W. of T-rd. W., 1 ft E. of a power pole, in a concrete post; a standard tablet stamped "TT 9 MWL 1961 897" 897.152
- 7.9 Reference Mark, 183 ft S. of tablet; 185 ft N., 49 ft W., and 7.6 ft higher than rd. at drive E., rail spike in powerline pole 898.60

SHELL ROCK QUAD. - 195

- 9.0 UE 9 MWL A; T. 90 and 91 N., R. 14 W., near E. sixteenth cor. between secs. 4 and 33; 9 ft W. and 1.3 ft lower than center of steel bridge; steel rivet head on top of center pier 879.4
- 10.2 Reference Mark, 110 ft NE. of tablet; 51 ft N., 43 ft E., and 7.5 ft lower than RR. crossing; rail spike in telephone pole 884.94
- 10.2 Janesville, 1.0 mi S. and 2.0 mi W. of; T. 90 N., R. 14 W., near quarter cor. between secs. 4 and 9; 31 ft S. and 31 ft W. of RR. crossing; 4 ft W. of a telephone pole, in a concrete post; a standard tablet stamped "TT 8 WML 1961 893" 893.452
- 11.4 UE 8 MWL A; T. 90 N., R. 14 W., near W. sixteenth cor. between secs. 9 and 16; 42 ft N., 33 ft E., and 3.1 ft higher than crossroads; rail spike in powerline pole 935.80
- 12.4 UE 8 MWL B; T. 90 N., R. 14 W., near cor. secs. 16, 17, 20 and 21; 16 ft S., 35 ft W., and 0.2 ft lower than N.-S. rd. at offset rd. W.; chiseled square on head-wall of concrete culvert 900.44
- 13.4 UE 8 MWL C; T. 90 N., R. 14 W., near cor. secs. 20, 21, 28 and 29; 54 ft S., 49 ft W., and 0.8 ft lower than rd. at fence W.; rail spike in power line pole 882.75
- 14.2 Cedar Falls, 2.25 mi N. and 2.75 mi W. of; T. 90 N., R. 14 W., near center of SW $\frac{1}{4}$  sec. 28 on the NW. wingwall of bridge over small creek; a standard USC&GS and Iowa Geodetic Survey tablet (NOTE: Tablet has no stamping) Elev. by USGS 877.457
- 14.2 Reference Mark, 252 ft S. of tablet; 125 ft S., 12 ft W., and 0.3 ft higher than center of bridge; chiseled square in concrete curbing at SW. cor. of bridge 877.39

CEDAR FALLS QUAD. - 194

- 15.0 UE USC&GS & State Survey tablet A; T. 90 N., R. 14 W., near the center of the E $\frac{1}{2}$  sec. 33, 243 ft NW. along rd., 50 ft SW. and 1.2 ft lower than center of rd. at short fence SW. which forks at a tree, rail spike in powerline pole 874.46
- 15.7 "C 39 1934" (Described in Line 3) 867.295