

THIRD-ORDER LEVELS  
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

MERCANTONVILLE QUADRANGLE  
116 - Iowa  
N4145-W9115/15  
Diagram NK 15-9  
Davenport, Iowa-Ill.

Johnson, Jones and Linn  
Counties

Edition of 9/27/71

PR: ADP/ct

ANAMOSA  
141

CEDAR RAPIDS  
117.

TIPTON  
115

WEST LIBERTY  
91

USC&amp;GS LEVELING

A. No. 410911

116 D

Feet

LINE 1

EAST NEAR CENTER OF WEST BORDER (By C. D. Lien, 1966, Book CV-2044)

CEDAR RAPIDS QUAD. 117

- 1 54 4.8 UE, 0.67 mi E. along rd. from tablet, 26 ft N., 23 ft E. of rd. at rd. S., 0.9 ft lower than rd. at rd. S., painted "888.9" (Mark not described) 888.88
- 56 6.0 UE, rail spike in telephone pole, 1.8 mi E. along rd. from tablet, 39 ft N., 37 ft W. from center of rd. at T-rd. S., 1.6 ft lower than T-rd. S., painted "880.1" 880.09

MECHANICSVILLE QUAD. 116

- 57 6.9 T. 82 N., R. 6 W., near the quarter cor. between secs. 24 and 25, Ely, 2.0 mi N. thence 4.5 mi E. along rd., 52 ft N., 59 ft W. of private drive N., 28 ft S., 2.5 ft W. of the SW. corner of a new house belonging to Donald H. Stewart, in concrete post set flush with the ground, standard tablet stamped "5 CDL 1966 RESET 1971" 865.101
- 58 6.9 Reference mark, 40 ft N., 200 ft E. from tablet, a rail spike in telephone pole 859.08
- 7.7 UE, T. 82 N., R. 5 W., near the NW. cor. of sec. 30, Ely, 2.0 mi N., 5.3 mi E. along rd., 21 ft N., 10 ft E. of center of rd. at private drive N., a punched hole in the E. end of a metal culvert; 1.1 ft lower than rd. at drive N., painted "841.7" 841.74
- 59 8.5 UE, T. 82 N., R. 5 W., near the center of sec. 30, Ely, 2.0 mi N. thence 6.07 mi E. along rd., a chiseled square in the SW. cor. of a concrete bridge over creek, 0.6 ft higher than rd. at bridge, painted "698.2" 698.30
- 61 9.3 Mt. Vernon, 3.2 mi S. and 2.5 mi W. of, T. 82 N., R. 5 W., in NW. cor. of sec. 31, 240 ft N. and 1.9 ft lower than Hwy. at a Hwy. concrete drain W., a tablet in top of concrete headwall stamped "BM LINN Co. Engr. Dept. 1503" painted "BM 832.5" Elev. by USGS 832.219

LINE 2

NORTH ALONG EAST BORDER (By L. M. Tackett, 1963, Book CV-1600)

TIPTON QUAD. 115

- 0.0 Buchanan, at, 350 ft E. of the Chicago, Rock Island and Pacific RR. station, 100 ft W. of milepost 33, at a 2 x 2 ft stone box culvert, in the NE. cor. of the N. stone headwall, 35 ft N. of the center of the track and 3.5 ft lower than rail; a USC&GS standard disk stamped "S 77 1934" 744.533

MECHANICSVILLE QUAD. 116

- 0.9 UE S 77 A, Tps. 80 and 81 N., Rs. 3 and 4 W., at cor. secs. 1, 6, 31 and 36, 33 ft S. and 38 ft W. and 4.2 ft lower than crossroad; a rail spike in E. side of a power pole, painted "UE 775.9" 775.93
- 1.9 UE S 77 B, T. 81 N., Rs. 3 and 4 W., at cor. secs. 25, 30, 31 and 36, a 40d. penny nail in center of blacktop rd. at gravel crossroad; painted "UE CL 776.9" 776.9
- 2.9 Mechanicsville, 7.0 mi S. of along Co. Rd. "C", T. 81 N., Rs. 3 and 4 W., at cor. secs. 19, 24, 25 and 30, 300 ft S. and 48 ft W. and 9.4 ft lower than T-rd. W., about 1.5 ft E. of power pole set flush with the ground, a standard tablet in top of a concrete post stamped "799 32 LMT 1963" painted "BM 798.5" 798.524

| LINE 2 (Cont'd)                                                                                                                                                                                                                                                                                                                            | MECHANICSVILLE QUAD. 116 | Feet    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| 2.9 Reference mark, 25 ft N. and 39 ft W. of T-rd. W., a chiseled square on the N. end of a concrete tile culvert                                                                                                                                                                                                                          |                          | 805.89  |
| 3.9 UE 32 LMT A, T. 81 N., Rs. 3 and 4 W., at cor. secs. 13, 18, 19 and 24, 13 ft S. and 37 ft E. at field rd. entrance E., a punched hole in S. end of steel pipe culvert, painted "UE 822.9"                                                                                                                                             |                          | 822.9   |
| 4.4 UE 32 LMT B, T. 81 N., Rs. 3 and 4 W., quarter cor. between secs. 13 and 18, 87 ft S. and 50 ft E. of crossroad; on top of concrete right of way marker, painted "UE 850.8"                                                                                                                                                            |                          | 850.80  |
| 5.0 Mechanicsville, 5.0 mi S. along Co. Rd. "C", T. 81 N., Rs. 3 and 4 W., at cor. secs. 7, 12, 13 and 18, 12 ft S. and 42 ft W. at field entrance W., in a fence cor. set flush with ground, a standard tablet in top of concrete post stamped "844 33 LMT 1963" painted "BM 843.5"                                                       |                          | 843.510 |
| 5.0 Reference mark, 23 ft S. and 39 ft E. of rd. at field entrance W., on top of concrete right-of-way marker                                                                                                                                                                                                                              |                          | 843.40  |
| 6.0 UE 33 LMT A, T. 81 N., Rs. 3 and 4 W., cor. secs. 1, 6, 7 and 12, 29 ft S. and 38 ft E. of crossroad; a rail spike in W. side power pole, painted "UE 873.9"                                                                                                                                                                           |                          | 873.92  |
| 7.0 Reference mark, 21 ft N. and 17 ft E. of rd. N. and rd. E., a punched hole in E. end of a steel pipe culvert                                                                                                                                                                                                                           |                          | 880.65  |
| 7.0 Mechanicsville, 3.0 mi S. of along Co. Rd. "C", Tps. 81 and 82 N., Rs. 3 and 4 W., at cor. secs. 1, 6, 31 and 36, 30 ft S. and 125 ft E. and 2 ft higher than rd. N. and rd. E., 1 ft N. of telephone pole and projecting 1 in. above ground, a standard tablet in top of a concrete post stamped "883 34 LMT 1963" painted "BM 883.0" |                          | 882.947 |
| 7.6 UE 34 LMT A, Tps. 81 and 82 N., R. 4 W., at quarter cor. between secs. 1 and 36, 28 ft S. and 30 ft W. and 0.1 ft higher than crossroads, a chiseled square on top of a concrete right of way marker, painted "UE 893.7"                                                                                                               |                          | 893.67  |
| 8.6 UE 34 LMT B, T. 82 N., R. 4 W., at quarter cor. between secs. 25 and 36, 22 ft S. and 39 ft E. and 4.2 ft lower than T-rd. E., a punched hole in S. end of a steel pipe culvert, painted "UE 893.4"                                                                                                                                    |                          | 893.4   |
| 9.6 UE 34 LMT C, T. 82 N., R. 4 W., at quarter cor. between secs. 24 and 25, 18 ft E. and 4.9 ft lower than rd. at culvert; a chiseled square in center of E. headwall 3 ft above drain, painted "UE 886.2"                                                                                                                                |                          | 886.17  |
| 10.6 Reference mark, top of S. rail of C. & N.W. RR. at Madison Street crossing                                                                                                                                                                                                                                                            |                          | 899.85  |
| 10.6 Mechanicsville, at, T. 82 N., R. 4 W., at quarter cor. between secs. 13 and 24, 39 ft N. and 117 ft E. and 3.7 ft lower than center of Hwy. 30 and Co. Hwy. "C" N.-S., also 1 ft N. of a telephone pole and between Hwy. 30 and C. & N.W. RR., a standard tablet in top of concrete post stamped "895 35 LMT 1963" painted "BM 894.5" |                          | 894.533 |
| 11.7 UE 35 LMT A, T. 82 N., Rs. 3 and 4 W., at quarter cor. between secs. 13 and 18, 22 ft S. and 58 ft E. and 3.9 ft lower than T-rd. E., a chiseled square on S. end of a concrete tile culvert, painted "UE 879.8"                                                                                                                      |                          | 879.82  |
| 12.4 UE 35 LMT B, T. 82 N., Rs. 2 and 3 W., near S. sixteenth cor. between secs. 7 and 12, 23 ft S. and 28 ft W. and 6.5 ft lower than T-rd. W., a punched hole in the S. end of steel pipe culvert, painted "UE 843.6"                                                                                                                    |                          | 843.6   |
| 13.0 UE 35 LMT C, T. 82 N., Rs. 3 and 4 W., near N. sixteenth cor. between secs. 7 and 12, a copper nail and washer in blacktop rd. at gravel rd. E., painted "UE CL 856.0"                                                                                                                                                                |                          | 856.05  |

4  
MECHANICSVILLE QUADRANGLE  
116 - Iowa

LINE 2 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- 13.5 UE LMT 35 D, T. 82 N., Rs. 2 and 3 W., near S. sixteenth cor. between secs. 1 and 6, 12 ft E. of center of bridge, 1 ft above center of bridge, a chiseled in center of E. headwall of the bridge and 16 ft above the water, painted "UE 809.9" 809.90
- 14.2 Reference mark, 26 ft S. and 33 ft W. of the T-rd. W., a punched hole in the S. end of a steel pipe culvert 864.92
- 14.2 Mechanicsville, 2.5 mi N. of along Co. Rd. "C" at Cedar and Jones County line, T. 82 and 83 N., Rs. 3 and 4 W., at cor. secs. 1, 6, 31 and 36, 38 ft N., 51 ft W. and 0.1 ft higher than T-rd. W., about 2 ft SE. of telephone post set flush with the ground, a standard tablet in top of concrete post stamped "866 36 LMT 1963" Painted "BM 866.3" 866.327
- 15.2 UE 36 LMT A, T. 83 N., Rs. 3 and 4 W., at cor. secs. 25, 30, 31 and 36, 15 ft S. and 39 ft W. and 5.8 ft lower than rd. at field entrance W., a punched hole in the S. end of a steel pipe culvert, painted "UE 874.8" 874.8
- 15.7 UE, 36 LMT B, T. 83 N., Rs. 3 and 4 W., at quarter cor. between secs. 19 and 24, a copper nail and washer in County blacktop rd. "C" at gravel crossroad, painted "UE 848.6" 848.63
- 16.8 UE 36 LMT C, T. 83 N., Rs. 3 and 4 W., at quarter cor. between secs. 19 and 24, 15 ft E. of bridge over white oak creek, 1 ft above center of bridge, a chiseled square in center of E. headwall of bridge, and 14 ft above the water; painted "UE 792.0" 792.02
- 16.9 Morley, 1.5 mi S. of along Co. Rd. "C", T. 83 N., Rs. 3 and 4 W., at quarter cor. between secs. 19 and 24, 32 ft S. and 50 ft E. and 0.9 ft lower than crossroad, about 1 ft NW. of a telephone pole set flush with the ground, a standard tablet in top of concrete post stamped "791 37 LMT 1963" Painted "BM 790.9" 790.904

TIPTON QUAD. 115

- 17.9 UE 37 LMT A, T. 83 N., R. 3 W., at quarter cor. between secs. 19 and 20, 50 ft S. and 35 ft W. and 2.6 ft lower than T-rd. W., a punched hole in the SE. end of a steel pipe culvert under field entrance; painted "UE 810.9" 810.9
- 19.0 UE 37 LMT B, T. 83 N., R. 3 W., near S. sixteenth cor. between secs. 20 and 21, 24 ft S. and 22 ft E. and 1.2 ft lower than rd. at field entrance S., a punched hole, in E. end of steel pipe culvert; painted "UE 793.9" 793.9
- 20.0 Reference mark, 12 ft S. of rd. at center of culvert; a chiseled square in the center of the S. headwall of culvert; 5 ft above the drain 772.05

LINE 3

SOUTH IN SOUTHEAST PORTION OF QUAD. (By L. M. Tackett, 1963, Book CV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 Buchanan, at, 350 ft E. of C. R. I. & P. RR. station, a USC&GS standard disk stamped "S 77 1934" (Described in Line 2) 744.533
- 0.4 UE 77 A, T. 80 N., R. 3 W., near center of sec. 6, 12 ft N. and 0.4 ft higher than rd. at bridge, a chiseled square in center of N. headwall of bridge; 15 ft above water, painted "UE 721.3" 721.26
- 1.1 UE 77 B, T. 80 N., R. 3 W., cor. secs. 5, 6, 7 and 8, 18 ft N. and 67 ft E. and 5.9 ft lower than T-rd. E., punched hole, in N. end of steel pipe culvert; painted "UE 797.0" 797.0

LINE 3 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- 2.0 Buchanan, 1.5 mi S. and 1.0 mi E. of, T. 80 N., R. 3 W., near S. sixteenth cor. between secs. 7 and 8, 17 ft S. and 51 ft E. and 0.9 ft higher than T-rd. E., concrete post with tablet stamped "USC&GS and State Survey station "16-5" painted "BM 825.2" Elev. by USGS 825.172

WILTON JUNCTION QUAD. 90

- 2.7 UE 77 C, T. 80 N., R. 3 W., near center and E. of sec. 18, 33 ft W. and 1.6 ft lower than T-rd. E., punched hole in N. end of steel pipe culvert under a field entrance W., painted "UE 799.0" 799.0
- 3.3 UE 77 D, T. 80 N., R. 3 W., in NE. cor. of sec. 19, 10 ft N. and 3.7 ft lower than center of bridge over Cedar River, chiseled cross on top of N. pier on upstream side; 19 ft above the water, painted "UE 668.2" 668.28

LINE 4

WEST THROUGH CENTER OF EAST PORTION OF QUAD. THENCE NORTH AND EAST (By L. M. Tackett, 1963, Book CV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 "UE 34 LMT A" (Described in Line 2) 893.67
- 1.0 UE 34 LMT AA, Tps. 81 and 82 N., R. 4 W., at quarter cor. between secs. 2 and 35, 31 ft S. and 23 ft W. and 1.1 ft lower than T-rd. S., a punched hole in the N. end of a steel pipe culvert under field rd. entrance; painted "UE 892.2" 892.1
- 1.8 UE 34 LMT BB, Tps. 81 and 82 N., R. 4 W., near E. sixteenth cor. between secs. 3 and 34; 34 ft S. and 31 ft W. and 3.3 ft lower than T-rd. S., a rail spike in N. side of a telephone pole, painted "UE 850.0" 849.99
- 2.6 Reference mark, 18 ft S. and 53 ft W. of T-rd. S., a punched hole in the S. end of a steel pipe culvert 824.01
- 2.6 Mechanicsville, 3.0 mi S. and 2.5 mi W. of, Tps. 81 and 82 N., R. 4 W., at cor. secs. 3, 4, 33 and 34, 35 ft N. and 31 ft E. and 0.8 ft lower than T-rd. N., 12 ft E. of fence cor. and set flush with ground, a standard tablet in top of concrete post stamped "829 43 LMT 1963" Painted "BM 828.8" 828.751
- 3.4 UE 43 LMT A, Tps. 81 and 82 N., R. 4 W., near W. sixteenth cor. between secs. 4 and 33, 17 ft S. and 11 ft W. and 2.8 ft lower than rd. at culvert; a chiseled square on W. end of the S. headwall, 3 ft above the drain, painted "UE 790.4" 790.36
- 4.0 UE 43 LMT B, Tps. 81 and 82 N., R. 4 W., near quarter cor. between secs. 5 and 32, 27 ft S. and 11 ft W. and 3 ft lower than rd. at field entrance S., a chiseled square, on the W. end of a concrete tile culvert, painted "UE 813.7" 813.68
- 4.5 UE 43 LMT C, Tps. 81 and 82 N., R. 4 W., near cor. secs. 5, 6, 31 and 32, 12 ft S. and 181 ft E. and 2.6 ft lower than crossroads, a chiseled square in the center of the S. headwall of a culvert; painted "UE 783.1" 783.01
- 5.4 Reference mark, 27 ft N. and 37 ft E. of crossroads, a rail spike in the S. side of telephone pole 744.41
- 5.4 Mechanicsville, 3.0 mi S. of and 5.0 mi W. of, Tps. 81 and 82 N., R. 4 W., near W. sixteenth cor. between secs. 6 and 31, 28 ft N. and 102 ft W. and 3.6 ft lower than T-rd. S., also 2 ft S. of fence and set flush with ground; a standard tablet in top of concrete post; stamped "746 44 LMT 1963" painted "BM 746.2" 746.140

LINE 4 (Cont'd)

|      | MECHANICSVILLE QUAD. 116                                                                                                                                                                                                                                                                                               | Feet    |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 5.9  | UE 44 LMT A, Tps. 81 and 82 N., R. 5 W., near E. sixteenth cor. between secs. 1 and 36, 29 ft N. and 38 ft W. and 1.7 ft lower than crossroads, a rail spike in S. side of a power pole, painted "UE 722.7"                                                                                                            | 722.60  |
| 6.9  | UE 44 LMT B, T. 82 N., R. 5 W., at E. sixteenth cor. between secs. 25 and 36, 27 ft N. and 48 ft W. and 3 ft lower than T-rd. W., a rail spike in W. side of a power pole, painted "UE 772.3"                                                                                                                          | 772.26  |
| 7.9  | UE 44 LMT C, T. 82 N., R. 5 W., near E. sixteenth cor. between secs. 24 and 25, 4 ft S. and 29 ft W. and 1.5 ft lower than rd. at cross fence; a rail spike in E. side of a power pole, painted "UE 820.5"                                                                                                             | 820.42  |
| 8.3  | Lisbon, 1.3 mi S. and 0.5 mi E. of, T. 82 N., R. 5 W., in SE. cor. of sec. 24, 35 ft S. and 14 ft W. and 1.5 ft lower than crossroad; a tablet set in top of the W. headwall of concrete culvert stamped "Linn Co. Engr. Dept. 143" painted "BM 808.7" Elev. by USGS                                                   | 808.627 |
| 8.9  | Lisbon, 0.6 mi S. and 0.3 mi E. of, T. 82 N., R. 5 W., near E. sixteenth cor. between secs. 13 and 24, 14 ft S. and 19 ft E. and 0.2 ft lower than bridge; a tablet in top of the SE. abutment of bridge, 9 ft above the water, stamped "Linn Co. Engr. Dept. Spring Creek #171", painted "BM 781.8" Elev. by USGS     | 781.732 |
| 9.8  | UE 44 LMT D, T. 82 N., R. 5 W., in NW. cor. of sec. 13, 21 ft N. and 16 ft E. and 0.5 ft higher than rd. at rd. exit from Lisbon Cemetery; a punched hole, in the E. end of a steel pipe culvert, painted "UE 872.1"                                                                                                   | 872.1   |
| 10.3 | UE 44 LMT E, T. 82 N., R. 5 W., near W. sixteenth cor. between secs. 12 and 13, 44 ft S. and 26 ft E. and 0.8 ft lower than crossroad; a punched hole in the W. end of a steel pipe culvert under rd. entrance into Texaco station, painted "UE 865.8"                                                                 | 865.7   |
| 11.4 | UE 44 LMT F, T. 82 N., R. 5 W., 0.25 mi E. of the center of sec. 12, 109 ft N. and 16 ft W. and 2.8 ft lower than T-rd. E., a punched hole in the W. end of a steel pipe culvert, painted "UE 861.8"                                                                                                                   | 861.8   |
| 12.4 | UE 44 LMT G, T. 82 N., R. 5 W., 0.25 mi E. of the center of sec. 1, 107 ft S. and 33 ft E. and 2.2 ft lower than rd. at drive E., a rail spike in the W. side of power pole, painted "UE 895.5"                                                                                                                        | 895.49  |
| 13.0 | Reference mark, 19 ft N. and 23 ft E. of crossroads, punched hole in N. end of a steel pipe culvert                                                                                                                                                                                                                    | 869.02  |
| 13.0 | Lisbon, 1.0 mi N., 0.3 mi E. of, Tps. 82 and 83 N., R. 5 W., near E. sixteenth cor. between secs. 1 and 36, 175 ft N. and 31 ft E. and 5.1 ft lower than crossroad; 6 ft S. of a power pole projecting 1 in. above the ground, a standard tablet in top of concrete post, stamped "867 45 LMT 1963" painted "BM 866.6" | 866.614 |
| 13.7 | UE 45 LMT A, T. 83 N., R. 5 W., in NE. cor. of sec. 36, 15 ft S. and 24 ft W. and 2.8 ft lower than T-rd. S., a punched hole in SW. end of a steel pipe culvert; painted "UE 874.5"                                                                                                                                    | 874.5   |
| 14.3 | Mt. Vernon, about 2.5 mi NE. of along Hwy. 261, T. 83 N., R. 5 W., near cor. secs. 25, 26, 35 and 36, 26 ft S. and 77 ft E. and 7.9 ft lower than crossroads, a tablet set in top of concrete headwall stamped "Linn Co. Engr. Dept. No. 118" painted "BM 868.3" Elev. by USGS                                         | 868.316 |
| 14.9 | UE 45 LMT B, T. 83 N., R. 5 W., 0.25 mi W. of center of sec. 25, 21 ft N., 48 ft E. and 1.4 ft lower than T-rd. E., a chiseled square on the N. end of a concrete tile culvert, painted "UE 883.3"                                                                                                                     | 883.26  |

LINE 4 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- |      |                                                                                                                                                                                                                                                                                                                 |         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 15.4 | UE 45 LMT C, T. 83 N., R. 5 W., 0.25 mi E. of cor. secs. 23, 24, 25 and 26, 60 ft E. and 2.5 ft lower than Hwy. 261 at fence E., on top of a RR. rail projecting 1 ft above ground next to a fence cor. post, painted "UE 886.9"                                                                                | 886.91  |
| 15.9 | Mt. Vernon, about 4.0 mi NE. of, along Hwy. 261, T. 83 N., R. 5 W., 0.2 mi W. of center of sec. 24, 171 ft N. and 59 ft E. and 1.2 ft lower than T-rd. E., also 2 ft S. of power pole, set flush with the ground, a standard tablet in top of a concrete post stamped "894 46 LMT 1963" Painted "BM 894.3"      | 894.280 |
| 15.9 | Reference mark, 30 ft N. and 62 ft E. of the T-rd. E., a rail spike in the W. side of telephone pole                                                                                                                                                                                                            | 893.37  |
| 17.0 | UE 46 LMT A, T. 83 N., R. 4 W., near center sec. 19, 22 ft N. and 14 ft W. and 2.3 ft lower than rd. at drive N., a punched hole in W. end of steel pipe culvert; painted "UE 870.5"                                                                                                                            | 870.5   |
| 17.4 | UE 46 LMT B, T. 83 N., R. 4 W., near quarter cor. between secs. 19 and 20, 14 ft S. and 17 ft E. and 0.7 ft higher than center of bridge; a copper nail and washer in top of SE. piling of bridge, 11 ft above the drain, painted "UE 845.1"                                                                    | 845.13  |
| 18.4 | Reference mark, 15 ft N. and 84 ft W. of the crossroads, a copper nail and washer on top of N. wooden headwall of small bridge                                                                                                                                                                                  | 848.60  |
| 18.5 | Morley, 1.5 mi S. and 4.0 mi W. of, T. 83 N., R. 4 W., at quarter cor. between secs. 20 and 21, 25 ft S. and 213 ft E. and 3.2 ft higher than crossroad, 1 ft N. of the fence and set flush with the ground, a standard tablet in top of a concrete post, stamped "851 47 LMT 1963" Painted "BM 851.4"          | 851.383 |
| 19.5 | UE 47 LMT A, T. 83 N., R. 4 W., at quarter cor. between secs. 21 and 22, 25 ft S. and 28 ft E. and 1.1 ft lower than T-rd. S., a punched hole in the N. end of a steel pipe culvert, under field rd. entrance, painted "UE 866.0"                                                                               | 866.0   |
| 19.9 | UE 47 LMT B, T. 83 N., R. 4 W., near center of sec. 22, 32 ft SW. and 1 ft higher than bend in N.-S. rd. at T-rd. SW., a punched hole in SE. end of a steel pipe culvert, painted "UE 880.6"                                                                                                                    | 880.6   |
| 20.5 | Reference mark, 59 ft N. and 82 ft E. of T-rd. N., a chiseled square on bottom step and S. end of the steps going into a small church                                                                                                                                                                           | 871.38  |
| 20.5 | Morley, 2.0 mi S. and 2.5 mi W. of, near center of sec. 22, T. 83 N., R. 4 W., 31 ft N. and 212 ft E. and 1 ft higher than T-rd. N. in SE. cor. of the churchyard, 4 ft N. of a fence cor. set flush with the ground, a standard tablet in top of a concrete post, stamped "865 48 LMT 1963" Painted "BM 865.1" | 865.077 |
| 21.0 | UE 48 LMT A, T. 83 N., R. 4 W., at cor. secs. 22, 23, 26 and 27, 42 ft N. and 20 ft E. and 0.4 ft higher than T-rd. S., a punched hole in the NW. end of a steel pipe culvert under field entrance, painted "UE 878.6"                                                                                          | 878.6   |
| 22.0 | UE 48 LMT B, T. 83 N., R. 4 W., at cor. secs. 23, 24, 25 and 26, 33 ft S. and 18 ft E. and 2.3 ft lower than T-rd. W., a punched hole in S. end of a steel pipe culvert under driveway E., painted "UE 842.2"                                                                                                   | 842.2   |
| 22.5 | UE 48 LMT C, T. 83 N., R. 4 W., at quarter cor. between secs. 23 and 24, 12 ft N. and 18 ft W. and 2 ft lower than T-rd. E., a punched hole in the N. end of steel pipe culvert under field entrance W., painted "UE 833.3"                                                                                     | 833.3   |
| 23.6 | "37 LMT 1963" (Described in Line 2)                                                                                                                                                                                                                                                                             | 790.904 |

Feet

LINE 5

NORTH ALONG WEST BORDER, THENCE EAST (By L. M. Taskett, 1963, Book CV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 At Solon, opposite the C. R. I. & P. RR. station, 11 poles NW. of milepost 82, at a semaphore signal, and in top of the SE. cor. of the concrete foundation, a US&GS standard disk stamped "M 76 1934" 791.898
- 0.5 UE M 76 A, T. 81 N., R. 6 W., in NW. cor. of sec. 25, at Solon, 18 ft S. and 23 ft W. and 0.3 ft lower than T-street E., a chiseled square on concrete sidewalk in front of Solon High School, painted "UE 790.0" 789.66
- 1.2 UE M 76 B, T. 81 N., R. 6 W., in NW. cor. of sec. 24, at N. end of Solon City limits, 35 ft E. of gravel rd. and 0.5 ft lower than gravel rd., 34 ft N. of a fence cor. post; a RR rail projecting 1 ft above the ground between Hwy. 261 and gravel rd., painted "UE 753.3" 753.39
- 2.3 UE M 76 C, T. 81 N., R. 6 W., near W. sixteenth cor. between secs. 12 and 13, 22 ft N. and 51 ft W. and 1.3 ft lower than crossroad; a chiseled square on N. end of a concrete tile culvert; painted "UE 781.0" 781.11
- 3.4 Reference mark, a chiseled square, center of Hwy. 261 at T-rd. W. 862.01
- 3.4 Solon, about 2.0 mi N. of along Hwy. 261, T. 81 N., R. 6 W., at cor. secs. 1, 2, 11 and 12, 152 ft N. and 52 ft W. and 2 ft N. of power pole set flush with the ground; a standard tablet in top of concrete post stamped "864 49 LMT 1963" painted "BM 864.3" (2 ft higher than T-rd. W.) 863.978
- 4.5 UE 49 LMT A, Tps. 81 and 82 N., R. 6 W., near quarter cor. between secs. 1 and 36, a chiseled square in center of Hwy. 261 at gravel rd. W., painted "UE GL 868.2" 867.93
- 5.5 Mt. Vernon, 3.2 mi S. and 2.5 mi W. of, T. 82 N., R. 5 W., in NW. cor. of sec. 31, 240 ft N. and 1.9 ft lower than Hwy. at a Hwy. concrete drain W., a tablet in top of concrete headwall stamped "BM Linn Co. Engr. Dept. 1503" painted "BM 832.5" Elev. by USGS 832.219
- 6.2 UE 49 LMT B, T. 82 N., R. 5 W., in SW. cor. of sec. 30, 17 ft S. and 48 ft E. and 2 ft lower than Hwy. 261 at drive E., a punched hole in S. end of a steel pipe culvert; painted "UE 701.4" 701.1
- 6.7 UE 49 LMT C, T. 82 N., R. 5 W., near quarter cor. between secs. 29 and 30, 5.3 ft lower than floor of bridge near center of Cedar River, a chiseled square on top of third pier from N. end of bridge on the downstream side, 25 ft above the water; painted "UE 701.9" 701.64
- 7.9 Mt. Vernon, 1.5 mi S. and 2.5 mi W. of, T. 82 N., R. 5 W., near quarter cor. between secs. 19 and 24, 23 ft S. and 3.6 ft lower than rd. at field entrance N., a tablet in top of the S. concrete headwall of a culvert; the tablet is stamped "Linn Co. Engr. Dept. 174" extended 1939, 8 ft above the drain, painted "BM 692.1" Elev. by USGS 691.765
- 8.6 UE 174 A, T. 82 N., Rs. 5 and 6 W., at cor. secs. 13, 18, 19 and 24, 35 ft N. and 21 ft E. and 0.2 ft lower than T-rd. E., a punched hole in the E. end of a steel pipe culvert, painted "UE 754.9" 754.7
- 10.6 UE 174 C, T. 82 N., R. 6 W., in NE. cor. of sec. 12, 25 ft SE. and 12 ft E. and 3.4 ft lower than rd. at drive N., a punched hole in E. end of steel pipe culvert, under field entrance S., painted "UE 787.0" 786.7
- 11.1 UE 174 D, T. 82 N., R. 6 W., near quarter cor. between secs. 1 and 12, 15 ft SE. and 42 ft E. and 3 ft lower than T-rd. N., a punched hole in S. end of a steel pipe culvert, painted "UE 778.2" 777.9

G996  
in the NW quad.  
of Hwy. 1 & NE  
120th St. 3' N  
of low rail  
10' N of a  
power pole  
25' inside  
Row fence

Sta. 692+80  
±  
57' let  
of E  
MM 100.9

NGVD 29 = 263.341  
NAVD 88 = 263.314

LINE 5 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- |      |                                                                                                                                                                                                                                                                                                                      |         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 12.0 | Mt. Vernon, 1.0 mi N. and 3.0 mi W. of, Tps. 82 and 83 N., R. 6 W., at quarter cor. between secs. 1 and 36, 48 ft S. and 49 ft W. and 9.9 ft lower than T-rd. E., a tablet set in top of W. headwall of concrete culvert stamped "Linn Co. Engr. Dept. No. 846 1922" painted "BM 744.9" Elev. by USGS                | 744.595 |
| 12.5 | UE 846 A, T. 83 N., R. 6 W., at center of sec. 36, 29 ft S. and 44 ft E. and 0.7 ft higher than crossroad, a rail spike in NW. side of telephone painted "UE 864.4"                                                                                                                                                  | 864.11  |
| 13.6 | UE 846 B, T. 83 N., Rs. 5 and 6 W., at cor. secs. 25, 30, 31 and 36, 25 ft N. and 22 ft E. and 2 ft lower than T-rd. N., a chiseled square in center of E. headwall of culvert; painted "UE 810.4"                                                                                                                   | 810.10  |
| 14.6 | Mt. Vernon, 3.1 mi N. and 2.5 mi W. of, T. 83 N., Rs. 5 and 6 W., at cor. secs. 19, 24, 25 and 30, 12 ft N. and 32 ft W. and 0.7 ft higher than rd. at field entrance W., 4.5 ft N. of N. gate post flush with the ground, a standard tablet in top of a concrete post, stamped "834 50 LMT 1963" painted "BM 834.4" | 834.123 |
| 14.6 | Reference mark, 126 ft N. and 18 ft W. of rd. at field entrance W., a punched hole in W. end of steel pipe culvert                                                                                                                                                                                                   | 829.87  |
| 15.7 | UE 50 LMT A, T. 83 N., Rs. 5 and 6 W., near cor. secs. 13, 18, 19 and 24, 190 ft N. and 16 ft E. and 3.2 ft lower than T-rd. N., a punched hole in E. end of steel pipe culvert, painted "UE 821.3"                                                                                                                  | 821.0   |
| 16.0 | Mt. Vernon, 4.0 mi N. and 2.8 mi W. of, T. 83 N., R. 5 W., near W. sixteenth cor. between secs. 18 and 19, 13 ft S. and 3 ft higher than rd. at culvert; a tablet in top of S. headwall of culvert, 17 ft above drain; tablet is stamped "Linn Co. Engr. Dept. No. 1018 1925" Painted "BM 782.9" Elev. by USGS       | 782.575 |
| 16.7 | Mt. Vernon, 4.0 mi N. and 2.0 mi W. of, T. 83 N., R. 5 W., in NE. cor. of sec. 19, 14 ft S. and 2.9 ft lower than rd. at culvert; a tablet in S. headwall of culvert, 7 ft above drain, stamped "Linn Co. Engr. Dept. 1680 1920" painted "BM 788.6" (Elev. by USGS)                                                  | 788.345 |
| 17.6 | UE 1680 A, T. 83 N., R. 5 W., in NE. cor. sec. 20, 72 ft N. and 324 ft E. and 1.7 ft higher than T-rd. S., a chiseled square on bottom and E. end of concrete step going into the Mt. Zion Church, painted "UE 927.4"                                                                                                | 927.09  |
| 17.7 | Mt. Vernon, 3.8 mi N. and 0.6 mi W. of; T. 83 N., R. 5 W., near N. sixteenth cor. between secs. 20 and 21, 10 ft S. and 1.2 ft higher than rd. at culvert; 7 ft above drain, a tablet in top of S. headwall of culvert, stamped "Linn Co. Engr. Dept. 2124" 1913. Painted "BM 930.7" Elev. by USGS                   | 930.381 |
| 18.9 | UE 2124 A, T. 83 N., R. 5 W., near S. sixteenth cor. between secs. 21 and 22, a copper nail and washer in blacktop rd. at gravel rd. NE., painted "UE 926.8"                                                                                                                                                         | 926.52  |
| 19.9 | UE 2124 B, T. 83 N., R. 5 W., near W. sixteenth cor. between secs. 15 and 22, 33 ft N., 33 ft E. and 1.6 ft lower than T-rd. E., a 60d rail driven in S. side of telephone pole, painted "UE 869.5"                                                                                                                  | 869.2   |
| 20.7 | Reference mark, 34 ft N. and 30 ft E. of crossroad; a 60d rail in the S. side of telephone pole                                                                                                                                                                                                                      | 885.66  |
| 20.7 | Mt. Vernon, 4.1 mi N. and 0.2 mi E. of, T. 83 N., R. 5 W., at cor. secs. 14, 15, 22 and 23, 33 ft N., 91 ft E. and 3.8 ft lower than crossroads, 1 ft S. of fence, projecting 1 in. above the ground; a standard tablet in top of concrete post stamped "883 51 LMT 1963" Painted "BM 883.3"                         | 883.043 |

LINE 5 (Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- 21.4 UE 51 LMT A, T. 83 N., R. 5 W., near E. sixteenth cor. between secs. 14 and 23, 25 ft S., 10 ft E. and 3 ft lower than rd. at field entrance S., a punched hole in the E. end of steel pipe culvert under field rd. entrance S., painted "UE 866.4" 866.2
- 22.2 UE 51 LMT B, T. 83 N., R. 5 W., near quarter cor. between secs. 13 and 24, 34 ft S., 60 ft W. and 2.5 ft lower than T-rd. W., on top of a RR. rail right-of-way marker projecting 1 ft above ground, painted "UE 897.2" 896.93
- 22.7 "46 LMT 1963" (Described in Line 4) 894.280

LINE 6

CHECK LINE IN SOUTHWEST PORTION OF QUAD. (By L. M. Tackett, 1963, Book GV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 USC&GS "M 76 1934" (Described in Line 5) 791.898
- 1.0 UE M 76 D, T. 81 N., R. 6 W., in SW $\frac{1}{4}$  sec. 24, about 1.0 mi SE. along Hwy. 1 from Solon, center of Hwy. at T-rd. E., painted "UE CL 813.3" 813.3
- 1.5 UE M 76 E, T. 81 N., R. 6 W., near quarter cor. between secs. 31 and 36, center of crossroads, painted "UE CL 826.7" 826.7
- 2.1 UE M 76 F, T. 81 N., R. 6 W., near center sec. 31, a chiseled square in center of S. headwall of small concrete culvert; 0.3 ft higher than rd. opposite and 4 ft above drain; painted "UE 816.6" 816.57

- 2.8 Solon, 2.1 mi SE. along the C. R. I. & P. RR. from the station at, 500 ft NW. of the station sign at Delvida, 5 poles NW. of milepost 80, at an 18 in. culvert, in top of the center of concrete headwall, 12 ft SW. of the center of the track and 3 ft lower than track; a USC&GS standard disk stamped "N 76 1934" 834.172

LINE 7

EAST NEAR CENTER OF WEST PORTION OF QUAD. (By L. M. Tackett, 1963, Book CV-1600)

MECHANICSVILLE QUAD. 116

- 0.0 "49 LMT 1963" (Described in Line 5) 863.978
- 1.1 UE M 76 CC, T. 81 N., Rs. 5 and 6 W., at cor. secs. 1, 6, 7 and 12, 28 ft S. and 3 ft W. and 2 ft lower than rd. at cross fence; a punched hole in E. end of a steel pipe culvert, painted "UE 833.2" 832.9
- 2.0 Solon, 2.1 mi N. and 1.5 mi E. of, T. 81 N., R. 5 W., cor. secs. 5, 6, 7 and 8, 26 ft N., 28 ft W. and 1 ft lower than crossroads, about 1 ft S. of power pole set flush with ground, standard tablet in top of concrete post stamped "801 52 LMT 1963" painted "BM 800.8" 800.640
- 2.0 Reference mark, 34 ft S. and 24 ft E. of crossroads, a chiseled square on NW. cor. of concrete wall around old schoolyard 804.03
- 2.8 UE 52 LMT A, T. 81 N., R. 5 W., near E. sixteenth cor. between secs. 5 and 8, 14 ft N. and 12 ft W. and 1.1 ft lower than rd. at fence N., a punched hole in N. end of a steel pipe culvert; painted "UE 774.8" 774.5
- 4.0 UE 52 LMT B, T. 81 N., R. 5 W., near cor. secs. 3, 4, 9 and 10, 10 ft S., 24 ft E. of bridge; a copper nail and washer in top of first piling at SE. cor. of bridge; 13 ft above water, painted "UE 721.5" 721.25

Found in 1902

Best

LINE 7 (Cont'd)

MECHANISVILLE QUAD. 116

- 4.4 Solon, 2.0 mi N. and 3.5 mi E. of, T. 81 N., R. 5 W., near N. sixteenth cor. between secs. 9 and 10, 40 ft N. and 65 ft E. and 4.7 ft higher than T-rd. E., about 1.5 ft S. of fence and projecting 1 in. above the ground, a standard tablet in top of concrete post, stamped "807 53 LMT 1963" Painted "BM 806.9" 806.751
- 4.4 Reference mark, 26 ft N. and 153 ft E. of T-rd. E., punched hole in E. end of steel pipe culvert 805.26
- 5.6 UE 53 LMT A, T. 81 N., R. 5 W., between secs. 10 and 11, copper nail and washer in center of blacktop rd. at field entrance N., painted "UE 695.1" 694.89
- 6.0 UE 53 LMT B, T. 81 N., R. 5 W., in NE. cor. of sec. 11, 10 ft S., 3.2 ft lower than center of bridge over Cedar River, top of E. bolt on top of pier at center of river; 18 ft above the water; painted "UE 688.5" 688.4
- 6.9 Reference mark, 15 ft S. and 28 ft E. of T-rd. E., a punched hole in S. end of steel pipe culvert 702.29
- 6.9 Solon, 2.0 mi N. and 5.5 mi E. of, T. 81 N., R. 5 W., at cor. secs. 1, 2, 11 and 12, 274 ft N. and 32 ft E. of rd. opposite tablet, 1.6 ft higher than BM, 1 ft E. of fence and flush with the ground, a standard tablet in top of concrete post, stamped "693 54 LMT 1963" painted "692.8" 692.656
- 7.8 Solon, 3.0 mi N. and 5.5 mi E. of, Tps. 81 and 82 N., R. 5 W., at cor. secs. 1, 2, 35 and 36, 6 ft N. and 17 ft W. and 0.4 ft lower than T-rd. E., a tablet in top of W. headwall of concrete culvert stamped "Linn Co. Engr. Dept. 670 1962" 5 ft above drain, painted "BM 701.9" Elev. by USGS 701.707
- 8.6 "UE 44 LMT A" (Described in Line 4) 722.63

LINE 8

SOUTH THIRD CENTER OF SOUTHWEST PORTION OF QUAD. (By L. M. Tackett, 1969, Book JV-1600)

MECHANISVILLE QUAD. 116

- 0.0 "53 LMT 1963" (Described in Line 7) 806.751
- 0.7 UE 53 LMT AA, T. 81 N., R. 5 W., at cor. secs. 9, 10, 15 and 16, 131 ft S., 23 ft E. and 9 ft lower than T-rd. W., chiseled square in center of E. headwall of a culvert, 8 ft above drain, painted "UE 709.4" 709.26
- 1.8 UE 53 LMT BB, T. 81 N., R. 5 W., near cor. secs. 15, 16, 21 and 22, 10 ft S. and 0.7 ft higher than rd. at small bridge; a chiseled square, in center of S. headwall of bridge, 13 ft above the water; painted "UE 728.9" 728.76
- 2.8 Solon, about 0.2 mi N. and 4.5 mi E. of, T. 81 N., R. 5 W., at cor. secs. 14, 15, 22 and 23, 23 ft N. and 205 ft E. and same elevation as rd. at driveway N., 2 ft S. of T-rd. N. and projecting 1 in. above ground, standard tablet in top of concrete post stamped "712 55 LMT 1963" Painted "BM 712.4" 712.208
- 2.8 Reference mark, 31 ft S. and 157 ft E. of rd. at drive N., a punched hole in N. end of steel pipe culvert under field rd. entrance 710.78
- 3.7 UE 55 LMT A, T. 81 N., R. 5 W., near center of sec. 23, 9 ft N. and 25 ft E. and 1.3 ft lower than center of bridge; a chiseled square on top of NE. pier of bridge, 10 ft above the water, painted "UE 690.0" 689.84
- 4.9 UE 55 LMT B, T. 81 N., R. 5 W., near center sec. 24, 29 ft S., 27 ft W. and 1 ft lower than T-rd. S., a punched hole in W. end of steel pipe culvert; painted "UE 724.8" 724.7

LINE 8 Cont'd)

MECHANICSVILLE QUAD. 116

Feet

- 5.7 UE 55 LMT C, T. 81 N., R. 5 W., near center of sec. 25, 11 ft S. and 17 ft W. and 0.4 ft lower than rd. at field entrance W., a punched hole in S. end of steel pipe culvert; painted "UE 821.4" 821.3
- 5.9 Solon, 1.0 mi S. and 6.0 mi E. of, T. 81 N., R. 5 W., about 0.25 mi S. of center of sec. 25, 54 ft N., 31 ft E. and 2.7 ft higher than T-rd. E., a standard and tablet in top of concrete post, stamped "842 56 LMT 1963" Painted "BM 842.3" 842.106
- 5.9 Reference mark, 19 ft N. and 22 ft E. of T-rd. E., chiseled square on N. end of concrete tile culvert 839.02
- 6.9 UE 56 LMT A, T. 81 N., R. 5 W., near center of sec. 36, 15 ft S. and 53 ft E. and 1 ft higher than rd. at driveway E. to house and church, a punched hole in the S. end of steel pipe culvert; painted "UE 845.7" 845.5
- 7.5 UE 56 LMT B, T. 80 N., R. 5 W., about 0.2 mi N. of center of sec. 1, 23 ft S. and 15 ft W. and 1.8 ft lower than T-rd. N., a punched hole in E. end of steel pipe culvert, under field entrance S., painted "UE 848.1" 848.0
- 8.5 UE 56 LMT C, T. 80 N., R. 5 W., about 0.15 mi N. of center of sec. 2; copper nail and washer in County blacktop rd. "N" at rd. NW., painted "UE CL 829.3" 829.21
- 8.9 Reference mark, 72 ft N., 64 ft W. of T-rd. S., a chiseled square in center of SE. headwall of County blacktop rd. "N" 821.20
- 8.9 Solon, 2.5 mi S. and 5.0 mi E. of, T. 80 N., R. 5 W., 0.1 mi S. of center of sec. 2, 20 ft S., 48 ft W. and same elevation as T-rd. S., about 2.5 ft W. of power pole set flush with the ground, a standard tablet in top of concrete post, stamped "820 57 LMT 1963" Painted "BM 820.0" 819.838

WEST LIBERTY QUAD. 91

- 9.9 UE 57 LMT A, T. 80 N., R. 5 W., 0.15 mi S. of center of sec. 11, center of rd. at fence E., painted "UE CL 821.0" 820.9
- 10.3 UE 57 LMT B, T. 80 N., R. 5 W., at quarter cor. between secs. 11 and 14, 36 ft N., 30 ft W. and 0.3 ft lower than crossroads; a 60d nail in E. side of telephone pole, painted "UE 832.6" 832.50
- 11.3 UE 57 LMT C, T. 80 N., R. 5 W., quarter cor. between secs. 14 and 23, 29 ft S. 33 ft W. and 0.3 ft lower than crossroads, 60d nail in N. side of power pole, painted "UE 802.0" 801.9
- 12.5 Elmira Junction, 2.7 mi E. along the C. R. I. & P. RR. from the water tank at, 16 poles E. of milepost 25, at 30 ft steel bridge 255, in center of S. end of E. stone abutment, 15 in. W. of back wall, 3.5 ft S. of girder, 8 ft S. of the center of track, 3 ft lower than rail; a US&GS standard disk stamped "N 77 1934" 748.194