

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

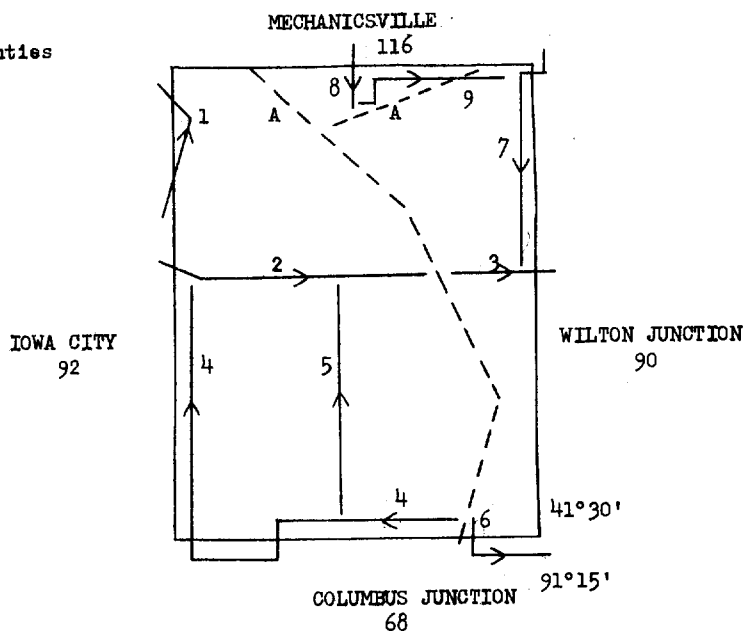
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WEST LIBERTY QUADRANGLE
91 - IOWA
N4130-W9115/15
DIAGRAM NK 15-9
DAVENPORT, IOWA ILL.

Cedar, Johnson, Muscatine Counties

Edition of 12/30/63

Ph: AH:vdc



USQ&GS LEVELING
A.*No. 410911

Feet

LINE 1

NORTH IN NORTHWEST PORTION OF QUAD. (J.K. Burns, H. A. Gillett, 1933; Book B 5063)

IOWA CITY QUAD. - 92

Iowa City, 1300 ft NE. of city limits of; in Iowa City Solon County rd. (now State Hwy. 261) 37 ft N. of center of rd. and directly in front of abandoned brick schoolhouse, in concrete post; standard tablet stamped "TT 26 S 1929"

795.501

WEST LIBERTY QUAD. - 91

T. 80 N., R. 6 W., in SW $\frac{1}{4}$ sec. 36, 550 ft NE. of T-rd. E.; in N. end of E. headwall of concrete culvert; chiseled square

691.90

T. 80 N., R. 6 W., in N. half of sec. 36, 230 ft N. of intersection of rd. fork SE., on E. headwall of concrete culvert; chiseled square

680.92

T. 80 N., R. 6 W., about 0.25 mi W. of E. cor. sec. 25 and 36, 120 ft N. of intersection of rd. fork E., in SW. wingwall of steel bridge over Rapid Creek; chiseled square

686.25

T. 80 N., R. 6 W., about 0.25 mi W. of E. cor. secs. 24 and 25, 30 ft S. and 30 ft W. from crossroads, in concrete post; standard tablet stamped "TT 25 S 1929"

798.466

Reference mark, 140 ft SE. of tablet; in E. headwall of concrete culvert; chiseled square

797.49

T. 80 N., R. 5 W., in SW $\frac{1}{4}$ sec. 19, 0.25 mi SW. along rd. from T-rd. E.; on E. headwall of concrete culvert; top of bolt

813.63

T. 80 N., R. 5 W., about 0.25 mi E. from W. cor. secs. 18 and 19, 50 ft N. of T-rd. E.; W. side of state rd. 261, in root SE. side of 36-in. elm tree; copper nail and washer

814.44

91 D

WEST LIBERTY QUADRANGLE
91 - IOWA

<u>LINE 1 (Cont'd)</u>	<u>WEST LIBERTY QUAD. - 91</u>	<u>Feet</u>
T. 80 N., R. 5 W., near center S. half of sec. 18, in W. headwall of concrete culvert; top of steel pin		825.26
T. 80 N., R. 5 W., near center sec. 18, 470 ft S. of T-rd. W.; on W. side of state rd. 261, in SE. root of 36-in. elm tree; copper nail and washer		849.58
T. 80 N., R. 6 W., near center sec. 13, 10 ft E. of S. end of church walk, in top of basswood stump, copper nail and washer		846.41
	<u>IOWA CITY QUAD. - 92</u>	
T. 80 N., R. 6 W., near cor. secs. 11, 12, 13 and 14, 3600 ft NW. along rd. from rd. fork near Newport Catholic Church, 7 ft S. and 25 ft W. from center of rd. in line with fence W., at jog in fence, in concrete post; standard tablet stamped "TT 1 E 1933" (Cabániss reported tablet gone in 1936)		831.905
Reference mark, 20 ft S. and 80 ft E. from tablet; in top of live locust tree stump; copper nail and washer		831.37

LINE 2

EAST NEAR CENTER OF QUADRANGLE (L.M. Tackett, 1963; CV 1600)

	<u>IOWA CITY QUAD. - 92</u>	
1 1 0.0	Iowa City, 0.3 mi S. along U.S. Hwy. 218 from intersection of State Hwy. 1 at; near the NE. cor. of Iowa City Airport, at pavement station 9+70, at a 2 x 2 ft concrete box culvert, in the top of the W. headwall, and 18 ft W. of the center of the hwy., a reinforcing bar. designated "13" (I.H.C.) USC&GS desc. and elev.	644.900
0.5	UE 13 A, T. 79 N., R. 6 W., in SW. cor. sec. 15, a chiseled square on top of an island in center of bridge over the Iowa River; painted "UE 649.1"	649.13
2 1.8	UE 13 IHC B, T. 79 N., R. 6 W., near quarter cor. between secs. 14 and 23; 68 ft S. and 21 ft W. and 2.2 ft lower than rd. between divided Hwy.; a chiseled square; on W. end of a concrete tile culvert; painted "UE 728.1"	728.13
	<u>WEST LIBERTY QUAD. - 91</u>	
3 2.8	UE 13 C, T. 79 N., R. 6 W., near quarter cor. between secs. 23 and 24; a chiseled square; in center of hwy. 6 at E. end of Island between divided hwy. painted UE centerline 680.9	680.93
4 3.6	Reference mark, 51 ft N. and 64 ft W. of T-rd. S.; a chiseled square; in center of N. headwall of a concrete culvert	663.08
5 3.6	Iowa City, 1.0 mi SE. of along Hwy. 6, T. 79 N., R. 5 and 6 W.; at cor. secs. 19, 24, 25 and 30; 145 ft S. and 39 ft E. and 4.1 ft lower than Trd. S.; 3 ft E. of a power pole and 1.5 ft N. of a fence and projecting 2-in. above the ground. a standard tablet in top of a concrete post stamped "667 1 LMT 1963" painted "EM 666.5" NOTE "TT 28 S 1929" which was located near this point has been destroyed.	666.482
6 4.7	UE 1 LMT A, T. 79 N., R. 5 W., at cor. secs. 19, 20, 29 and 30; 23 ft N. 18 ft E. and 2.1 ft lower than crossroads; a punched hole in E. end of steel pipe culvert; painted "UE 679.6"	679.7
7 5.7	UE 1 LMT B, T. 79 N., R. 5 W., near cor. secs. 20, 21, 28 and 29; 15 ft N. and 6 ft E. and 4.4 ft lower than rd. at culvert; 7 ft above the drain; a chiseled square E. end of the N. headwall of concrete culvert; painted "UE 699.1"	699.13

LINE 2 (Contd)

WEST LIBERTY QUAD. - 91

Feet

- | | | |
|---------|---|---------|
| 1 8 6.7 | Iowa City, 1.0 mi SW. along Hwy. 6 and 3.0 mi E. of; T. 79 N., R. 5 W.; at cor. secs. 21, 22, 27 and 28, 31 ft N. and 89 ft W., 4.1 ft higher than T-rd. N.; also 0.5 ft S. of fence and projecting 2 in. above the ground; a standard tablet in top of concrete post stamped "764 2 LMT 1963" painted "EM 764.2" | 764.233 |
| 9 6.7 | Reference mark, 21 ft S. and 19 ft E. of T-rd. N.; a punched hole in E. end of steel pipe culvert | 756.80 |
| 10 7.7 | UE 2 LMT A, T. 79 N., R. 5 W., at cor. secs. 22, 23, 26 and 27; 162 ft N., 22 ft E. and 4.2 ft lower than T-rd. N.; punched hole E. end of steel pipe culvert; painted "UE 761.1" | 761.2 |
| 11 8.7 | UE 2 LMT B, T. 79 N., R. 5 W., cor. secs. 23, 24, 25 and 26; 28 ft S., 22 ft W. and 0.2 ft lower than crossroads; punched hole in W. end of a steel pipe culvert; painted "UE 752.7" | 752.8 |
| 12 10.0 | West Branch, 3.0 mi S., 1.0 mi W. of; T. 79 N., Rs. 4 and 5 W., NE. cor. sec. 25, 40 ft S., 33 ft W. and 3.2 ft lower than T-rd. W.; 1 ft NE. of fence cor. post projecting 2-in. above the ground. a standard tablet in top of a concrete post stamped "749 3 LMT 1963" painted "EM 748.7" | 748.811 |
| 14 10.0 | Reference mark, 23 ft S. and 25 ft E. of T-rd. W.; a RR. spike in W. side of telephone pole | 749.01 |
| 15 11.2 | UE 3 LMT A, T. 79 N., R. 4 W., near quarter cor. between secs. 29 and 30; 10 ft N., 38 ft W. and 3.2 ft lower than T-rd. E. a chisled square; on S. end of concrete tile culvert; painted "UE 680.7" | 680.79 |
| 16 12.6 | West Branch, 3.0 mi S. and 0.5 mi E. of; T. 79 N., R. 4 W.; cor. secs. 20, 21, 28 and 29; 100 ft S., 33 ft E. and 0.2 ft higher than T-rd. E.; between telephone pole and fence; projecting 1-in. above ground; standard tablet in top of concrete post; stamped "694 4 LMT 1963" painted "EM 693.7" | 693.831 |
| 17 12.6 | Reference mark, 430 ft E. of T-rd. E.; chiseled square in center of concrete floor of bridge; 14 ft above water | 687.25 |
| 18 13.7 | UE 4 LMT A, T. 79 N., R. 4 W., cor. secs. 21, 22, 27 and 28, 26 ft S., 33 ft E. and 0.2 ft lower than crossroads; punched hole in W. end of steel pipe culvert under field entrance S.; painted "UE 736.4" | 736.6 |
| 19 14.4 | Centerdale, 1.1 mi SE. along the Chicago, Rock Island and Pacific RR. from the station at; 23 poles NW. of milepost 65, at a 20 ft concrete deck bridge, in top of the NE. end of the SE. concrete abutment; 9 ft NE. of the center of the track, and 1 ft lower than track; a USC&GS standard disk stamped Y 76 1934 | 694.618 |

LINE 3

EAST NEAR CENTER OF EAST BORDER (L.M. Tackett, 1963; CV 1600)

WEST LIBERTY QUAD. - 91

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|----------|---|---------|
| 1 21 0.0 | USC&GS disk "Y 76 1934" (described in Line 2) | 694.618 |
| 0.9 | UE Y 76 A, T. 79 N., R. 4 W., near quarter cor. between secs. 23 and 26; chiseled square in center of concrete floor of bridge over Middle Creek; 13 ft above the water; painted "UE 686.4" | 686.37 |
| 22 1.3 | UE Y 76 B, T. 79 N., R. 4 W., cor. secs. 23, 24, 25 and 26, 16 ft N. and 37 ft E. and 0.8 ft lower than crossroads; punched hole in N. end of steel pipe culvert; painted "UE 711.2" | 711.2 |

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WEST LIBERTY QUADRANGLE
91 - IOWA

<u>LINE 3 (Cont'd)</u>		<u>WEST LIBERTY QUAD. - 91</u>	<u>Feet</u>
1 23 2.3	Springdale, 3.0 mi S., and 0.2 mi E. of; T. 79 N., R. 3 and 4 W.; at cor. secs. 19, 24, 25 and 30; 16 ft S., 179 ft W. and 5.8 ft higher than crossroads; 1 ft N. of fence and projecting 1-in. above ground, a standard tablet in top of concrete post stamped "753 5 LMT 1963" painted "EM 752.7"		752.675
23 2.3	Reference mark, 24 ft S. and 45 ft W. of crossroads; RR. spike in N. side of power pole		752.59

WILTON JUNCTION QUAD. - 90

25 3.5	UE, 5 LMT A, T. 79 N., R. 3 W., near cor. secs. 19, 20, 29 and 30; 9 ft N., 19 ft W. and 1.3 ft lower than center of bridge; a chiseled square; on NW. abutment of bridge; 9 ft above the water; painted "UE 686.7"		686.68
26 4.4	UE, 5 LMT B, T. 79 N., R. 3 W., cor. secs. 20, 21, 28 and 29; 24 ft S., 113 ft E. and 0.1 ft lower than crossroads; punched hole in S. end of steel pipe culvert; painted "UE 723.0"		723.0

LINE 4

WEST ALONG SOUTH BORDER THENCE NORTH. (L.M. Tackett, 1963; CV 1600) This line replaces line by W.R. Broadus, 1930

WEST LIBERTY QUAD. - 91

1 51 0.0	West Liberty, 3.4 mi SW. along the C. R.I. & P. RR. from the station at; 3 poles NE. of milepost 58, at public rd. crossing, 18 ft SE. of the center of the rd., 9 ft NW. of the center of track, in top of SW. end of NW. concrete headwall, and 1.5 ft lower than track. a US&GS standard disk, stamped "D 77 1934" NOTE: This point is near "TT 6 S 1929" which has been destroyed		647.102
1.1	UE D 77 A, T. 77 & 78 N., R. 4 W., quarter cor. between secs. 2, and 35; 67 ft N., 31 ft W. and 2.5 ft lower than T-rd. W.; a punched hole; on W. end of steel pipe culvert; painted "UE 637.4"		637.4
52 1.6	UE D 77 B, T. 77 and 78 N., R. 4 W., cor. secs. 2, 3, 34 and 35; top of E. rail center of E.-W. rd. painted "UE centerline 638.7"		638.7
53 2.6	UE D 77 C, T. 77 and 78 N., R. 4 W., cor. secs. 3, 4, 33 and 34; 74 ft N. and 26 ft W. and 1.7 ft lower than crossroads; a punched hole; in W. end of a steel pipe culvert; painted "UE 669.0"		669.0
54 3.6	Reference mark, 28 ft N. and 18 ft E. of T-rd. N.; punched hole in E. end of steel pipe culvert		712.95
55 3.6	West Liberty, 3.8 mi S. and 2.6 mi W. of; T. 77 and 78 N., R. 4 W.; at cor. secs. 32, 33, 4 and 5; 42 ft N. and 30 ft W. and 0.9 ft higher than T-rd. N.; 5 ft N. of fence corner and projecting 2-in. above the ground; standard tablet in top of concrete post; stamped "715 11 LMT 1963" painted "EM 715.2" NOTE: "TT 7 S 1929" which was located near this point has been destroyed.		715.220
56 4.6	UE 11 LMT A, T. 77 and 78 N., R. 4 W., at cor. secs. 5, 6, 31 and 32; 30 ft S., 23 ft E. and 3 ft lower than crossroads; a punched hole; in E. end of steel pipe culvert; painted "UE 722.9"		723.0
57 5.6	UE 11 LMT B, T. 77 and 78 N., R. 4 and 5 W., cor. secs. 1, 6, 31 and 36; 29 ft S., 28 ft W. and 1.2 ft lower than crossroads; a chiseled square; on N. end of a concrete tile culvert under field rd.; painted "UE 734.1"		734.21
58 6.6	Lone Tree, 1.2 mi N. and about 1.5 mi E. of; T. 77 and 78 N., R. 5 W., at cor. secs. 1, 2, 35 and 36; 32 ft N., 34 ft W. and 1.8 ft lower than T-rd. S.; about 1.5 ft S. of a power pole set flush with the ground; a standard tablet in top of a concrete post; stamped "705 12 LMT 1963" painted "EM 704.6" NOTE: "TT 8 S 1929; which was located near this point has been destroyed.		704.646

11827 Liberty

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WEST LIBERTY QUADRANGLE
91 - IOWA

LINE 4 (Cont'd)

WEST LIBERTY QUAD. - 91

Feet

- 1 59 6.6 Reference mark, 19 ft S. and 162 ft W. of T-rd. S.; a punched hole in S. end of a steel pipe culvert 701.83
- 60 7.6 UE 12 LMT A, T. 77 and 78 N., R. 5 W., at cor. secs. 2, 3, 34 and 35; 16 ft S. and 19 ft W. and 0.5 ft lower than crossroads; a punched hole in W. end of a steel pipe culvert; painted "UE 726.4" 726.5
- 61 8.7 UE, Tps. 77 and 78 N., R. 5 and 6 W., near cor. secs. 3, 4, 33 and 34; top of E. headwall of concrete culvert under Hwy.; chiseled square; 2.9 ft lower than rd. at culvert; painted "UE 704.4" 704.51
- COLUMBUS JUNCTION - 68
- 62 9.7 Lone Tree, 0.2 mi N. of; T. 77 N., R. 5 W., cor. secs. 3, 4, 9 and 10; 200 ft N. and 36 ft E. and 1.8 ft lower than crossroads; 1 ft SE. of power pole and projecting 1-in. above the ground. a standard tablet in top of concrete pole; stamped "720 13 LMT 1963" painted "BM 719.5" NOTE: TT 9 S 1929" which was located near this point has been destroyed. 719.605
- 63 9.7 Reference mark, 16 ft N. and 16 ft W. of crossroads; a chiseled square; on SW. cor of curb of the NE. Island 721.70
- 64 10.8 UE 13 LMT A, T. 77 N., R. 5 W., at cor. secs. 4, 5, 8 and 9, 21 ft N. and 45 ft E. and 1.1 ft lower than crossroads; a bolt and washer with the letters I.H.C., B.M. on it in the center of the N. headwall of a culvert; painted "UE 671.6" 671.67
- 65 11.8 UE, 13 LMT B, T. 77 N., R. 5 W., at cor. secs. 5, 6, 7 and 8; a copper nail and washer in blacktop Hwy. 22 at cross fences; painted "UE centerline 655.8" 655.93
- 66 12.8 Lone Tree, 0.2 mi N. and 3.0 mi W. of; T. 77 N., R. 5 and 6 W., cor. secs. 1, 6, 7 and 12, 59 ft N., 41 ft E. and 2.7 ft lower than crossroads; 1 ft S. of fence and 1 ft E. of telephone pole; set flush with the ground, standard tablet in top of concrete post; stamped "649 14 LMT 1963" painted "BM 648.5" 648.637
- 67 12.8 Reference mark, 45 ft N. and 23 ft W. of crossroads; chiseled square on W. end of concrete tile culvert NOTE: "TT 10 S 1929" which was located near this point has been destroyed. 647.87
- WEST LIBERTY QUAD. - 91
- 68 13.8 UE 14 LMT A, T. 77 and 78 N., R. 5 and 6 W., cor. secs. 1, 6, 31 and 36; 29 ft N. and 19 ft E. and 2.4 ft lower than crossroads; punched hole in E. end of steel pipe culvert; painted "UE 660.5" 660.6
- 69 14.8 UE, 14 LMT B, T. 78 N., R. 5 and 6 W., cor. secs. 25, 30, 31 and 36; 15 ft N. and 29 ft W. and 1.9 ft lower than crossroads; a punched hole in N. end of steel pipe culvert; painted "UE 658.4" 658.5
- 70 15.8 Reference mark, 182 ft N. and 31 ft E. of crossroads; a RR. spike; in W. side of telephone pole 665.01
- 71 15.8 Iowa City, 7.2 mi S. and 1.0 mi E. of; T. 78 N., R. 5 and 6 W. at cor. secs. 19, 24, 25 and 30, 215 ft N. and 30 ft W. and 4.0 ft lower than crossroads; about 1 ft E. of a power pole; projecting 2-in. above the ground; a standard tablet in top of a concrete post; stamped "665 15 LMT 1963" painted "BM 664.8" NOTE: "TT 30 S 1929" which was located near this point has been destroyed. 664.933
- 72 16.9 UE, 15 LMT A, T. 78 N., R. 5 and 6 W., at cor. secs. 13, 18, 19 and 24, 44 ft N. and 31 ft W. and 0.6 ft lower than crossroads; a RR. spike; in SE. side of a power pole; painted "UE 669.8" 669.99
- 73 17.8 UE 15 LMT B, T. 78 N., R. 5 and 6 W., at cor. secs. 7, 12, 13 and 18; 20 ft S., 20 ft E. and 2.3 ft lower than crossroads; punched hole in S. end of steel pipe culvert; painted "UE 660.0" 660.1

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WEST LIBERTY QUADRANGLE
91 - IOWA

LINE 4 (Cont'd)

WEST LIBERTY QUAD. - 91

Feet

- 1 74 18.8 Reference mark, 27 ft N. and 17 ft W. of crossroads; a punched hole; in W. end of a steel pipe culvert 667.83
- 75 18.8 Iowa City, 4.2 mi S. and 1.0 mi E. of; T. 78 N., R. 5 and 6 W., cor. secs. 1, 6, 7 and 12; 218 ft N. and 35 ft W. and 1.4 ft lower than crossroads; 1 ft S. of power pole projecting 4-in. above ground; a standard tablet in top of concrete post; stamped "669 16 LMT 1963" painted "EM 668.9" 669.118
NOTE: "TT 29 S 1929" which was located near this point has been destroyed
- 76 19.9 UE, 16 LMT A, T. 78 and 79 N., R. 5 and 6 W., cor. secs. 1, 6, 31 and 36; 17 ft S. and 20 ft W. and 1.2 ft lower than T-rd. W.; punched hole in W. end of steel pipe culvert; painted "UE 671.5" 671.7
- 77 20.9 Iowa City, 2.2 mi S. and about 1.0 mi E. of; T. 79 N., R. 5 and 6 W., at cor. secs. 25, 30, 31 and 36, 35 ft S., 33 ft E. and 2.4 ft higher than T-rd. E.; about 1 ft W. of fence which reads "USC&GS No. 1064 & 52" Elev. by USGS 669.520
- 78 21.9 "1 LMT 1963" (described in Line 2) 666.482

LINE 5

NORTH THRU CENTER OF SOUTH PORTION OF QUAD. (L.M. Tackett, 1963; CV 1600)

WEST LIBERTY QUAD. - 91

- 2 1 0.0 "UE 11 LMT B" (described in Line 4) 734.21
- 1.0 UE 11 LMT BB, T. 77 and 78 N., R. 4 and 5 W., cor. secs. 25, 30, 31 and 36; 20 ft S. and 25 ft W. and 2.5 ft lower than T-rd. W.; punched hole in S. end of steel pipe culvert; painted "UE 695.3" 695.3
- 2 2.0 West Liberty, 1.8 mi S. and about 5.0 mi W. of; T. 78 N., R. 4 and 5 W., cor. secs. 19, 24, 25 and 30, on the Johnson and Muscatine County Line, 170 ft S. and 31 ft E. and 4.6 ft lower than T-rd. E.; about 1.5 ft W. of a power pole set flush with the ground a standard tablet in top of concrete post stamped "661 17 LMT 1963" painted "EM 660.6" 660.686
- 3 2.0 Reference mark, 19 ft S. and 35 ft E. of the T-rd. E.; chiseled square on S. end of concrete tile culvert 661.95
- 4 3.1 UE, 17 LMT A, T. 78 N., R. 5 and 4 W., at cor. secs. 13, 18, 19 and 24; 40 ft N. and 20 ft E. and 3.7 ft lower than crossroads; a punched hole in N. end of steel pipe culvert; painted "UE 720.2" 720.3
- 5 4.1 UE, 17 LMT B, T. 78 N., R. 4 and 5 W., cor. secs. 7, 12, 13 and 18; 29 ft S., 25 ft W. and 2.8 ft lower than crossroads; punched hole in W. end of steel pipe culvert; painted "UE 703.2" 703.3
- 6 5.1 Reference mark, 17 ft S. and 27 ft W. of T-rd. W.; punched hole in the S. end of a steel pipe culvert 721.06
- 7 5.1 West Liberty, about 5.0 mi W. of on the Muscatine - Johnson County Line. T. 78 N., R. 4 and 5 W., cor. secs. 1, 6, 7 and 12; 78 ft N. and 30 ft W. and 5.3 ft lower than T-rd. W.; about 1 ft E. of telephone pole; set flush with the ground; a standard tablet in top of a concrete post; stamped "717 18 LMT 1963" painted "EM 716.6" 716.667
- 8 5.9 UE 18 LMT A, T. 78 N., R. 4 and 5 W., near N. sixteenth cor. between secs. 1 and 6; 15 ft N. and 22 ft E. and 1.5 ft lower than T-rd. S.; a punched hole in W. end of steel pipe culvert under driveway going to a house painted "UE 751.9" 752.0
- 9 7.2 UE, 18 LMT B, T. 79 N., R. 4 and 5 W., cor. secs. 25, 30, 31 and 36; 26 ft S., 18 ft W. and 0.2 ft lower than crossroads; punched hole in W. end of steel pipe culvert; painted "UE 736.5" 736.6
- 10 7.9 "3 LMT 1963" (described in Line 2) 748.811

LINE 6

Feet

EAST IN SOUTHEAST PORTION OF QUAD. (L.M. Tackett, 1963; CV 1600)
{This line replaces line by W.R. Broaddus, 1930}

WEST LIBERTY QUAD. - 91

2 11 0.0 "UE D 77 A" (described in Line 4) 637.4

COLUMBUS JUNCTION QUAD. - 68

- 1.1 UE D 77 AA, T. 77 N., R. 4 W., 0.1 mi E. of quarter cor. between secs. 2 and 11; copper nail and washer in center of floor of bridge and 9 ft above water; painted "UE centerline 625.6" 625.60
- 12 2.0 UE D 77 B, T. 77 N., R. 4 W., at quarter cor. between secs. 1 and 12; 32 ft N. and 1 ft W. and 1.8 ft lower than rd. at N.-S. fence; a RR. spike; in S. of a power pole; painted "UE 635.3" 635.34
- 13 2.6 Reference mark, 33 ft S. and 52 ft E. of the crossroads; on top of steel rightway marker 633.10
- 14 2.6 West Liberty, 5.0 mi S. along Hwy. 76; T. 77 N., R. 3 and 4 W., cor. secs. 1, 6, 7 and 12; 32 ft N. and 75 ft E. and 0.9 ft lower than crossroads; about 1 ft S. of the fence and 2 ft W. of a power pole; set flush with the ground a standard tablet in top of concrete post; stamped "632 19 LMT 1963" painted "BM 631.7" 631.785
- T. 77 N., Rs. 3 and 4 W., at cor. secs. 1, 6, 7 and 12, 25 ft N. and 70 ft E. of crossroads; in concrete post; standard tablet stamped "TT 5 S 1929" NOTE: The elev. of this B.M. was established by W.R. Broaddus, in 1930. This B.M. is located near this point and was reported disturbed by Tackett but was not included in this line. 632.199

MUSCATINE QUAD. - 67

- 15 3.5 UE, 19 LMT A, T. 77 N., R. 3 W., cor. secs. 5, 6, 7 and 8; 32 ft S., 34 ft W. and 3.0 ft lower than crossroads; punched hole in S. end of steel pipe culvert; painted "UE 628.7" 628.7
- 16 4.6 UE, 19 LMT B, T. 77 N., R. 3 W., near cor. secs. 4, 5, 8 and 9, 11 ft N., 0.5 ft higher than center of bridge; 6 ft above the water, chiseled square in center of N. headwall of bridge; painted "UE 611.9" 611.97

LINE 7

SOUTH ALONG NORTH PORTION OF EAST BORDER (L.M. Tackett, 1963; CV 1600)

MECHANICSVILLE QUAD. - 116

- 3 57 0.0 Buchanan at; 350 ft E. of C. R.I. & P. RR. station, 100 ft W. of milepost 33, at 2 x 2 ft stone box culvert, in NE. corner of N. stone headwall, 35 ft N. of the center of track, and 3.5 ft lower than rail; a USC&GS standard disk stamped "S 77 1934" 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 the water; painted "UE 721.3" 721.26
- 58 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 a steel pipe culvert; painted "UE 797.0" 797.0
- 59 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 U.S.G.S. 825.172

WEST LIBERTY QUADRANGLE

91 - IOWA

LINE 7 (Cont'd)

WILTON JUNCTION - 90

Feet

- 3 60 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 the N. end of steel pipe culvert under a field entrance W. painted "UE 799.0" 799.0
- 61 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

WEST LIBERTY QUAD. - 91

- 62 3.8 UE 77 E, T. 80 N., R. 3 and 4 W., near N. sixteenth cor. between secs. 19 and 24, at Cedar Valley, 78 ft N. and 235 ft W. and 4.5 ft higher than rd. fork; a RR. spike; in the SW. side of power pole; painted "UE 785.0" 785.05
- 63 4.7 Springdale, 3.0 mi N. of; 1.0 mi S. of Cedar Valley, T. 80 N., R. 3 and 4 W.; at cor. secs. 19, 24, 25 and 30; 164 ft N. and 38 ft W. and 6.5 ft lower than crossroads; about 1 ft E. of power pole; projecting 1-in. above ground; standard tablet in top of concrete post; stamped "701 41 LMT 1963" painted "BM 700.6" 700.661
- 64 4.7 Reference mark, 33 ft S. and 44 ft W. of crossroads; a concrete right-of-way marker; with a bolt in top 702.92
- 65 5.7 UE 41 LMT A, T. 80 N., R. 3 and 4 W., at cor. secs. 25, 30, 31 and 36; 14 ft N. and 30 ft E. and 2.9 ft lower than rd. at field entrance E.; punched hole in N. end of steel pipe culvert; painted "UE 732.5" 732.6
- 66 6.7 UE 41 LMT B, T. 80 and 81 N., R. 3 and 4 W., cor. secs. 1, 6, 31 and 36; 19 ft S. and 64 ft W. and 5.4 ft lower than crossroads; chiseled square; on S. end of concrete tile culvert; painted "UE 791.5" 791.55
- 67 7.2 Springdale A Sta.; Iowa City, 14 mi E. and 1.5 mi N. of; 4.5 mi E. and 1.0 mi N. of West Branch, 1.0 mi N. of the Village of Springdale, in the SE. cor. of the SW $\frac{1}{4}$ sec. 36; T. 80 N., R. 4 W., on land owned by Henry Tucker. The station is on the N. side of township rd., 12 meters N. of rd., 12 meters W. of N. and S $\frac{1}{2}$ sec. line fence 807.222
- 68 7.3 Reference mark 2, on fence line on E. side of half sec. line rd. which runs N. from Springdale; about 250 meters of a township line 807.738
- 69 8.3 UE, Springdale A, T. 79 N., R. 4 W., $\frac{1}{4}$ cor. between secs. 1 and 12; 22 ft S. and same elev. as T-rd. N.; at the town of Springdale, a chiseled square on top of sewer drain; painted "UE 777.2" 777.30
- 70 8.9 UE, Springdale B, T. 79 N., R. 3 and 4 W., cor. secs. 1, 6, 7 and 12; copper nail and washer in blacktop Hwy.; at crossroads; painted "UE centerline 758.9" 758.96
- 71 9.6 UE Springdale C, T. 79 N., R. 3 and 4 W., quarter cor. between secs. 7 and 12; 17 ft E. and 0.7 ft higher than center of overpass; a chiseled square; in center of E. headwall of overpass over Interstate 80; painted "UE 773.9" 774.01
- 72 9.9 Springdale, 1.0 mi S. and 0.5 mi E. of; T. 79 N., R. 3 and 4 W.; at cor. secs. 7, 12, 13 and 18; 169 ft N. and 47 ft W. and 2.2 ft higher than the crossroad; 3 ft SW. of a power pole projecting 1-in. above ground a standard tablet in top of concrete post; stamped "771 42 LMT 1963" painted "BM 771.3" 771.388
- 73 9.9 Reference mark, 19 ft N. and 36 ft E. of crossroad; a chiseled square on N. end of concrete tile culvert 765.56
- 74 10.9 UE 42 LMT A, T. 79 N., R. 3 and 4 W., cor. secs. 13, 18, 19 and 24; 18 ft S. and 32 ft W. and 3.0 ft lower than crossroads; a chiseled square on the S. end of a concrete tile culvert; painted "UE 758.9" 759.04
- 75 12.0 "5 LMT 1963" (described in Line 3) 752.675

ITEM

LINE 8

Feet

SOUTH NEAR CENTER OF NORTH BORDER (L.M. Tackett, 1963; CV 1600)

MECHANICSVILLE QUAD. - 116

- | | | | |
|------|-----|---|---------|
| 5 31 | 8.9 | Reference mark, 72 ft N. and 64 ft W. of T-rd. S.; chiseled square in center of SE. headwall of county blacktop rd. 11N" | 821.20 |
| 32 | 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. and 48 ft W. and same elev. as T-rd. S.; about 2.5 ft W. of a power pole; set flush with the ground, standard tablet in top of concrete post stamped "820 57 LMT 1963" painted "BM 820.0" | 819.838 |

WEST LIBERTY QUAD. - 91

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|----|------|---|---------|
| 33 | 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 centerline 821.0" | 820.9 |
| 34 | 10.3 | UE 57 LMT B, T. 80 N., R. 5 W., at quarter cor. between secs. 11 and 14; 36 ft N. and 30 ft W. and 0.3 ft lower than crossroads; a 60 penny nail in E. side of telephone pole; painted UE 832.6 | 832.50 |
| 35 | 11.3 | UE 57 LMT C, T. 80 N., R. 5 W., quarter cor. between secs. 14 and 23, 29 ft S. and 33 ft W. and 0.3 ft lower than crossroads; a 60 d nail in N. side of power pole; painted "UE 802.0" | 801.9 |
| 36 | 12.5 | Elmira Junction, 2.7 mi E. along the Chicago, Rock Island and Pacific RR. from water tank at; 16 poles E. of milepost 25; 30 ft Steel bridge 255, in the center of S. end of E. stone abutment, 15-in. W. of back wall, 3.5 ft S. of girder, 8 ft S. of center of track, and 3 ft lower than rail; a USC&GS standard disk stamped "N 77 1934" | 748.194 |

LINE 9

EAST ALONG EAST PORTION OF NORTH BORDER (L.M. Tackett, 1963; CV 1600)

WEST LIBERTY QUAD. - 91

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|------|-----|---|---------|
| 5 37 | 0.0 | USC&GS "N77 1934" (described in Line 8) | 748.194 |
| | 0.2 | UE N 77 A, T. 80 N., R. 4 and 5 W., cor. secs. 13, 18, 19 and 24, 18 ft N. and 18 ft E. and 1.4 ft lower than T-rd. S.; chiseled square on N. end of concrete tile culvert; painted "UE 749.6" | 749.58 |
| 38 | 1.3 | UE N 77 B, T. 80 N., R. 4 W., at cor. secs. 17, 18, 19 and 20; 14 ft N. and 34 ft W. and 2.1 ft lower than crossroads; a chiseled square on NE. wingwall of small bridge; 9 ft above the drain; painted "UE 730.4" | 730.38 |
| 39 | 2.3 | UE N 77 C, T. 80 N., R. 4 W., cor. secs. 16, 17, 20 and 21; 19 ft S., 18 ft E. and 1.6 ft lower than crossroads; chiseled square; on center of SE. headwall of culvert; 6 ft above drain; painted "UE 721.2" | 721.21 |
| 40 | 3.2 | Reference mark, 37 ft S. and 14 ft E. of crossroads; chiseled square on E. end of concrete tile culvert | 741.19 |
| 41 | 3.3 | Cedar Valley, 3.0 mi W. of; T. 80 N., R. 4 W., at cor. secs. 16, 15, 21 and 22; 43 ft S. and 46 ft W. and 4.2 ft lower than crossroads; 2 ft SE. of fence corner post set flush with the ground. a standard tablet in top of concrete post stamped "737 58 LMT 1963" painted "BM 737.3" | 737.258 |
| 42 | 4.6 | UE 58 LMT A, T. 80 N., R. 4 W., near W. sixteenth cor. between secs. 14 and 23; 73 ft N and 8 ft W. and 3.5 ft lower than T-rd. N.; a chiseled square in center of W. headwall of culvert; painted "UE 745.2" | 745.13 |

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WEST LIBERTY QUADRANGLE
91 - IOWA

LINE 9 (Cont'd)

WEST LIBERTY QUAD. - 91

Feet

5 43 5.5	UE 58 LMT B, T. 80 N., R. 4 W., near cor. secs. 13, 14, 23 and 24; 44 ft N. and 23 ft E. and 1.4 ft lower than T-rd. N.; a punched hole in the S. end of a steel pipe culvert under field entrance E.; painted "UE 819.6"	819.6
44 6.6	"UE 77 E" (described in Line 7)	785.05