

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

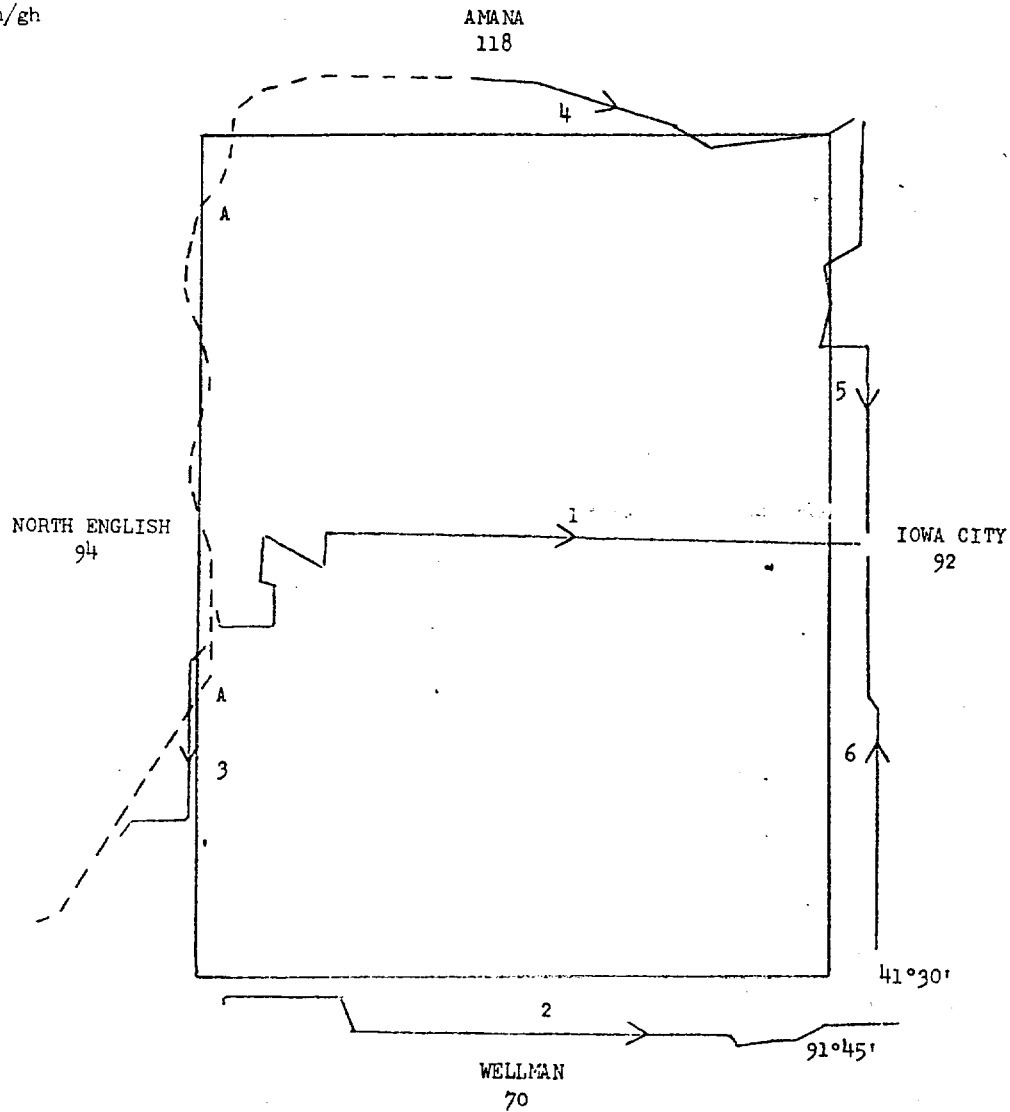
FINAL ADJUSTMENT OF 1970

Iowa, Johnson, Keokuk and
Washington Counties

Edition of 5-19-70

ADP:ph/gh

OXFORD QUADRANGLE
93 - IOWA
N4130-W9145/15
DIAGRAM NK 15-9
DAVENPORT



USC&GS VERTICAL CONTROL DATA

A. Quadrangle 410914

LINE 1

FEET

W. E. Knouse, 1969; Book CV 2446

OXFORD QUAD. - 93

- | | | |
|---------|---|---------|
| 1 2 0.0 | Parnell, 1.8 mi N. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at 8.5 poles N. of milepost 48, at a private rd. crossing, 47 ft W. of the center of the track, 18 ft N. of the center of the gate, 3 ft E. of the right-of-way fence, and about 3 ft higher than the rail; a USC&GS standard disk stamped "V 85 1934" and set in top of a concrete post | 792.264 |
| 2 0.4 | UE V 85 AA, Tps. 78 and 79 N., R. 10 W., near quarter cor. secs. 3 and 34, at center of RR. crossing E.-W. gravel rd., on center of center wood crossing plank; copper nail and washer | 805.29 |
| 3 1.0 | UE V 85 BB, T. 78 and 79 N., R. 10 W., between NE $\frac{1}{4}$ sec. 2 and SE $\frac{1}{4}$ sec. 35, 12 ft N. and 21.5 ft E. and 0.3 ft lower than center of bridge, on top of a 10-in. diameter wooden post (post is wing support post for NE wooden wing of bridge); copper nail and washer (water level 12.5 ft lower) | 750.64 |
| 4 1.4 | UE V 85 CC, Tps. 78 and 79 N., R. 10 W., near quarter cor. secs. 2 and 35, center of E.-W. rd. at drive N. | 823.7 |
| 5 1.6 | UE V 85 DD, Tps. 78 and 79 N., R. 10 W., between NE $\frac{1}{4}$ sec. 2 and SE $\frac{1}{4}$ sec. 35, center of rd. at crest | 805.2 |
| 6 1.7 | UE V 85 EE, Tps. 78 and 79 N., R. 10 W., near cor. secs. 35, 36, 1 and 2, 31.5 ft N. and 37.5 ft W. and 0.1 ft lower than T-rd. N., in W. side of power pole; RR. spike | 776.15 |
| 7 2.2 | UE V 85 FF, T. 79 N., R. 10 E., near quarter cor. secs. 35 and 36, at center of wood floor of bridge over a creek; copper nail and washer | 739.76 |
| 8 2.8 | UE V 85 GG, T. 79 N., R. 10 W., near cor. secs. 25, 26, 35 and 36, about 250 ft W. of curve in rd. (curves from N. to W.) 16 ft N. of center of E.-W. portion of rd., in corrugated steel culvert and near N. end; punched hole | 828.99 |
| 9 2.9 | UE V 85 HH, T. 79 N., R. 10 W., between NE $\frac{1}{4}$ sec. 35, and SE $\frac{1}{4}$ sec. 26, center of rd. at crest | 830.9 |
| 10 3.4 | Reference mark, T. 79 N., R. 10 W., in E. central portion sec. 26, 66 ft S. and 21.5 ft E. of T-rd. W., on top of S. end of corrugated steel culvert; punched hole | 824.00 |
| 11 3.5 | Williamsburg, 2.5 mi S. and 1.75 mi E. from, T. 79 N., R. 10 W., in E. central portion of sec. 26, 52 ft N. and 27.5 ft W. of T-rd. W., 1 ft E. of W. right-of-way fence, 16 ft N. of corner post of fence, in top of concrete post; standard tablet stamped "1 WEK 1969" | 825.570 |
| 12 4.0 | UE 1 A, T. 79 N., R. 10 W., in SE $\frac{1}{4}$ sec. 23, center of T-rd. S. (gravel rds.) | 831.6 |
| 13 4.0 | UE 1 B, T. 79 N., R. 10 W., in SE $\frac{1}{4}$ sec. 23, 20.3 ft N. of center of rd., 59.9 ft E. of T-rd. S., on top of N. end of corrugated steel culvert; punched hole | 828.77 |
| 14 4.6 | UE 1 C, T. 79 N., R. 10 W., in NW $\frac{1}{4}$ sec. 25, 33 ft S. and 40 ft W. and 0.4 ft lower than T-rd. N., in N. side of power pole; RR. spike | 852.02 |

LINE 1 (Cont'd)	OXFORD QUAD. - 93	FEET
1 15 5.5 UE 1 D, T. 79 N., Rs. 9 and 10 W., between SW $\frac{1}{4}$ sec. 30 and SE $\frac{1}{4}$ sec. 25, 44 ft S. and 1 ft E. and 1.7 ft lower than T-rd. N., in E. side of power pole; RR. spike		813.05
16 5.7 UE 1 E, T. 79 N., Rs. 9 and 10 W., near quarter cor. secs. 25 and 30, 16.5 ft N. and 15.5 ft E. and 0.1 ft lower than center of bridge over a creek, on top of 12-in. diameter wood post (post is support for NE. wood wing of bridge) a spike nail head (water level 11.3 ft lower than UE)		751.19
17 6.2 Reference mark, T. 79 N., Rs. 9 and 10 W., near cor. secs. 24, 25, 19 and 30, 13 ft S. and 8 ft E. and 0.2 ft lower than center of bridge on top of S. end of E. concrete wheelguard of bridge; chiseled square (water level, 10.5 ft lower)		757.75
18 6.2 Williamsburg, 2.0 mi S. and 3.0 mi E. from, T. 79 N., Rs. 9 and 10 W., near cor. secs. 19, 24, 25 and 30, 32.5 ft W., and 8 ft S. of T-rd. NE., 1.5 ft E. of W. right-of-way fence, on top of concrete post; standard tablet stamped "2 WEK 1969"		757.104
19 6.8 UE 2 A, T. 79 N., R. 9 W., near quarter cor. secs. 19 and 30, 450 ft E. of rd. at N.-S. fence, 14 ft S. and 3.9 ft lower than center of rd. at culvert; on E. end of S. headwall of concrete box culvert; chiseled square		784.01
20 7.3 UE 2 B, T. 79 N., R. 9 W., near cor. secs. 19, 20, 29 and 30, 20 ft S. and 24 ft E. and 5.2 ft lower than crossroads, on top of S. end of corrugated steel culvert; punched hole		790.89
21 7.9 UE 2 C, T. 79 N., R. 9 W., about 0.15 mi E. of quarter cor. secs. 20 and 29, 12.5 ft S. and 3.7 ft lower than center of rd. at drain on top of E. end of S. headwall of concrete culvert; chiseled square		787.58
22 8.3 UE 2 D, T. 79 N., R. 9 W., near cor. secs. 20, 21, 28 and 29, 35 ft N., 31 ft W. and 3.4 ft lower than crossroads, in S. side of telephone pole; RR. spike		833.50
23 8.8 UE 2 E, T. 79 N., R. 9 W., near quarter cor. 21 and 28, about 160 ft E. of rd. at N.-S. fence line, 22 ft S., 4 ft W. and 4.3 ft lower than center of rd. at drain, on top of a 4 x 4 retaining support; copper nail and washer (water level 10.0 ft below UE)		751.72
24 9.3 UE 2 F, T. 79 N., R. 9 W., near cor. secs. 21, 22, 27 and 28, center of Crossroads (gravel rds.)		810.3
25 9.3 Reference mark, T. 79 N., R. 9 W., near cor. secs. 21, 22, 27 and 28, 32 ft S., 33 ft E. of crossroads, in N. side of power pole; RR. spike		805.64
26 9.3 Williamsburg, 6.0 mi E. and 2.0 mi S. from, 6.5 mi W. and 1.3 mi N. of Windham, T. 79 N., R. 9 W., near cor. secs. 21, 22, 27 and 28, 33 ft S. and 60 ft E. of crossroads, 1.25 ft N. of S. right-of-way fence, in top of concrete post; standard tablet stamped "3 WEK 1969"		804.241
27 9.9 UE 3 A, T. 79 N., R. 9 W., near quarter cor. secs. 22 and 27, at center of wood floor of bridge; copper nail and washer (water level 11.0 ft below UE)		730.02
28 10.3 UE 3 B, T. 79 N., R. 9 W., near cor. secs. 22, 23, 26 and 27, 33.5 ft N. and 24 ft E. and 2.3 ft lower than crossroads, on E. end of corrugated steel culvert; punched hole		783.28
30 11.3 UE 3 C, T. 79 N., R. 9 W., near cor. secs. 23, 24, 25 and 26, 30 ft S. and 86 ft E. and 11.7 ft lower than T-rd. N., on top of S. end of corrugated steel culvert; punched hole		788.92

<u>LINE 1 (Cont'd)</u>		<u>OXFORD QUAD. - 93</u>	<u>FEET</u>
1	31 11.5	UE 3 D, T. 79 N., R. 9 W., between NW $\frac{1}{4}$ sec. 25 and SW $\frac{1}{4}$ sec. 24, 23 ft N. and 21 ft E. and 1.3 ft lower than T-rd. S., on top of E. end of corrugated steel culvert; (culvert under field entrance)punched hole	831.77
	32 12.3	UE 3 E, T. 79 N., Rs. 9 and 8 W., near cor. secs. 24, 25, 19 and 30, center of crossroads (gravel rds.)	772.6
	33 12.4	Reference mark, T. 79 N., Rs. 8 and 9 W., about 400 ft E. of cor. secs. 24, 25, 19 and 30, 16 ft S. and 29 ft E. of center of wooden bridge over creek; copper nail and washer, (center of bridge 0.4 ft lower, water level 9.0 ft lower)	729.91
	34 12.4	Williamsburg, 2.0 mi S. and 9.0 mi E. from, 1.3 mi N. and 3.5 mi W. from Windham, T. 79 N., Rs. 8 and 9 W., about 0.15 mi E. of cor. secs. 24, 25, 19 and 30, 30 ft S. and 15 ft W. of center of E.-W. rd. at field entrance S., 1 ft N. of S. right-of-way fence, in top of concrete post; standard tablet stamped "4 WEK 1969"	727.532
	35 12.8	UE 4 A, T. 79 N., R. 8 W., near quarter cor. secs. 19 and 30, about 250 ft E. and 17 ft N. of center of rd. at fence N.-S., 17 ft N. of center of rd. at drain and 3 ft lower than center of rd. at drain, on top of N. end of corrugated steel culvert; punched hole	787.49
	36 13.3	UE 4 B, T. 79 N., R. 8 W., near cor. secs. 19, 20, 29 and 30, at center of crossroads; copper nail and washer	800.64
	37 13.8	UE 4 C, T. 79 N., R. 8 W., near quarter cor. secs. 20 and 29, center of E.-W. rd. opposite N.-S. fence line; copper nail and washer	798.23
	38 14.3	UE 4 D, T. 79 N., R. 8 W., near cor. secs. 20, 21, 28 and 29, at center of T-rd. S.; copper nail and washer	777.20
	39 14.8	UE 4 E, T. 79 N., R. 8 W., near quarter cor. secs. 21 and 28, 11 ft N. and 15 ft E. and 0.5 ft lower than center of bridge, on top and near center of NE. concrete wing of bridge; chiseled square (water level 8.0 ft below UE 4 E)	722.06
	40 15.3	Reference mark, T. 79 N., R. 8 W., near cor. secs. 21, 22, 27 and 28, center of E.-W. rd. at N.-S. fenceline; copper nail and washer	789.58
	41 15.3	Williamsburg, 2.0 mi S. and 12.0 mi E. from; 1.3 mi N. and 0.5 mi W. from Windham, T. 79 N., R. 8 W., near cor. secs. 21, 22, 27 and 28, 33 ft S. and 92 ft E. of rd. at N.-S. fence, 1 ft N. of S. right-of-way fence, in top of concrete post; standard tablet stamped "5 WEK 1969"	790.983
	42 15.8	UE 5 A, T. 79 N., R. 8 W., near quarter cor. secs. 22 and 27, at center of T-rd. N.; copper nail and washer	713.60
	43 16.0	UE 5 B, T. 79 N., R. 8 W., between SE $\frac{1}{4}$ sec 22 and NE $\frac{1}{4}$ sec. 27, at center of T-rd. S.; copper nail and washer	748.93
	44 16.8	UE 5 C, T. 79 N., R. 8 W., near quarter cor. secs. 23 and 26, at center of wood floor of bridge; copper nail and washer (water level 6.0 ft below)	692.63
	45 17.4	UE 33 B, 2.1 mi S. along blacktop rd. from tablet, T. 79 N., R. 8 W., 0.1 mi S. of cor. secs. 23, 24, 25 and 26, about 500 ft S. of crossroads, 51 ft N., 11.6 ft W. and 0.6 ft higher than center of N.-S. rd. at concrete bridge over creek, in top of N. end of W. concrete curb; chiseled square	692.28

LINE 2

FEET

W. E. Knouse, 1969; Book CV 2446

WELLMAN QUAD. - 70

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|---|----|-----|--|---------|
| 1 | 48 | 0.0 | North English, 2.1 mi S. and 4.2 mi E. of, 1.9 mi N. and 0.3 mi W. of Kinross, T. 77 N., R. 10 W., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, 15 ft N. and 46 ft W. and 4.6 ft higher than center of N.-S. rd. at field entrance W., 6 ft E. of a power pole, in a concrete post; a standard tablet stamped "2 DWE 1964" painted "BM 797.7" | 797.798 |
| | 48 | 0.4 | UE 2 DWE AA, T. 77 N., R. 10 W., in NE $\frac{1}{4}$ sec. 10, 109 ft S., 75 ft W. and 8.5 ft lower than T-rd. S., 15.5 ft SW. of center of NW. fork of T-rd., on top of SW. end of corrugated steel culvert; punched hole | 756.41 |
| | 49 | 0.9 | UE 2 DWE BB, T. 77 N., R. 10 W., in NW $\frac{1}{4}$ sec. 11, near Jet. of T-rd. N., 55 ft N. of center of E.-W. rd., 47.5 ft E. of center of rd. opposite UE, 15 ft E. of a projected center of rd. N., if it did not jog at T-rd., on top of SE. end of concrete pipe culvert; chiseled square | 718.20 |
| | 50 | 1.4 | UE 2 DWE CC, T. 77 N., R. 10 W., in NE $\frac{1}{4}$ sec. 11, 3 ft lower, 35 ft S. and 73 ft W. of T-rd. S., in N. side of a power pole; RR. spike | 769.22 |
| | 51 | 1.7 | UE 2 DWE DD, T. 77 N., R. 10 W., in NW $\frac{1}{4}$ sec. 12, 13 ft N. and 32 ft W. and 0.5 ft lower than center of bridge, 12 ft above water level in drain on top of 12-in. diameter support post (for NW. wing of bridge); copper nail and washer | 706.68 |
| | 52 | 2.5 | UE 2 DWE EE, T. 77 N., R. 10 W., in NE $\frac{1}{4}$ sec. 12, 28 ft S. and 26 ft W. and 2.9 ft lower than T-rd. E., on top of W. end of concrete pipe culvert; chiseled square | 694.88 |
| | 53 | 2.9 | UE 2 DWE FF, T. 77 N., R. 9 W., in NW $\frac{1}{4}$ sec. 7, at center of floor of bridge over S. fork of English River; copper nail and washer | 698.72 |
| | 54 | 3.5 | Reference mark, T. 77 N., R. 9 W., in SW $\frac{1}{4}$ sec. 7, 20 ft N. and 30.5 ft E. of rd. at drive E., 170 ft N. of T-rd. W., in W. side of telephone pole; RR. spike | 792.24 |
| | 55 | 3.5 | Kinross, 2.3 mi E. and 1.75 mi N. from, 1.25 mi N. and 5.0 mi W. from, T. 77 N., R. 9 W., in SW $\frac{1}{4}$ sec. 7, 136 ft N. of T-rd. W., 14 ft S. and 30.5 ft E. of rd. at drive E., 1 ft W. of E. right-of-way fence, in top of concrete post; standard tablet stamped "6 WEK 1969" | 792.938 |
| | 57 | 4.6 | UE 6 A, T. 77 N., R. 9 W., between SW $\frac{1}{4}$ sec. 8 and NW $\frac{1}{4}$ sec. 17, 17.5 ft S., 24.5 ft E. and 0.6 ft lower than crossroads, on top of S. end of concrete pipe culvert; chiseled square | 737.25 |
| | 58 | 5.4 | UE 6 B, T. 77 N., R. 9 W., near cor. secs. 8, 9, 16 and 17, 34 ft N. and 39 ft W. and 4.6 ft lower than crossroads, in S. side of telephone pole; RR. spike | 773.05 |
| | 59 | 5.9 | UE 6 C, T. 77 N., R. 9 W., near quarter cor. secs. 9 and 16, 17 ft N. and 9 ft W. of rd. at N.-S. fence, on top of N. end of corrugated steel culvert; punched hole | 742.63 |
| | 60 | 6.4 | UE 6 D, T. 77 N., R. 9 W., near cor. secs. 9, 10, 15 and 16, at center of crossroads; Iowa State Hwy. Commission B.M. plug | 760.50 |
| | 61 | 7.1 | Reference mark, T. 77 N., R. 9 W., between NE $\frac{1}{4}$ sec. 15 and SE $\frac{1}{4}$ sec. 10, 16 ft S. and 5 ft W. and 0.8 ft lower than center of rd. at culvert, on W. end of S. concrete headwall; chiseled square | 711.88 |
| | 62 | 7.2 | Kinross, 1.5 mi N. and 5.75 mi E. from; 1.0 mi N. and 1.5 mi W. from Wellman, T. 77 N., R. 9 W., between SE $\frac{1}{4}$ sec. 10 and NE $\frac{1}{4}$ sec. 15, 29 ft N. and 10 ft W. of center of rd. at field entrance N., 1 ft S. of N. right-of-way fence, in top of concrete post; standard tablet stamped "7 WEK 1969" | 712.569 |

<u>LINE 2 (Cont'd)</u>	<u>WELLMAN QUAD. - 70</u>	<u>FEET</u>
1 63 7.7 UE 7 A, T. 77 N., R. 9 W., between SW $\frac{1}{4}$ sec. 11 and NW $\frac{1}{4}$ sec. 14, 25.5 ft N., 24 ft E. and 1.2 ft lower than crossroads, on top of N. end of corrugated steel culvert; punched hole		713.34
64 8.4 UE 7 B, T. 77 N., R. 9 W., near cor. secs. 11, 12, 13 and 14, 22 ft S. and 47 ft W. and 2.3 ft lower than T-rd. N., in N. side of a power pole; RR. spike		771.93
65 8.7 UE 7 C, T. 77 N., R. 9 W., between SW $\frac{1}{4}$ sec. 12, and NW $\frac{1}{4}$ sec. 13, 140 ft W. of rd. jct., 19 ft E. and 27 ft S. of rd. at farm drive S., on top of E. end of corrugated steel culvert; punched hole		786.99
67 9.4 UE 7 D, T. 77 N., R. 8 W., and 9 W., near cor. secs. 7, 12, 13 and 18, at center of crossroads, Iowa State Hwy. Commission B.M. plug		762.32
68 10.1 Reference mark, T. 77 N., R. 8 W., between SE $\frac{1}{4}$ sec. 7 and NE $\frac{1}{4}$ sec. 18, 12 ft S. and 51 ft E. and 0.9 ft lower than T-rd. S., on top of S. concrete headwall of culvert; chiseled square		704.58
69 10.2 Wellman, 1.0 mi N. and 1.0 mi E. from, 5.25 mi W. from Kalona, T. 77 N., R. 8 W., between SE $\frac{1}{4}$ sec. 7 and NE $\frac{1}{4}$ sec. 18, about 400 ft E. of T-rd. S., 23 ft N. of center of E.-W. rd., 1 ft S. of N. right-of-way fence, 3 ft W. and 1 ft S. of power pole, in top of concrete post; a standard tablet stamped "8 WEK 1969"		707.392
70 10.8 UE 8 A, T. 77 N., R. 8 W., near quarter cor. secs. 8 and 17, 26 ft N. and 23 ft E. and 0.7 ft lower than T-rd. N., on top of E. end of concrete pipe culvert; chiseled square		771.95
71 11.1 UE 8 B, T. 77 N., R. 8 W., between SE $\frac{1}{4}$ sec. 8, and NE $\frac{1}{4}$ sec. 17, 22 ft S., 24 ft W. and 1.3 ft lower than T-rd. S., on top of SW. end of concrete pipe culvert; chiseled square		720.98
72 12.0 UE 8 C, T. 77 N., R. 8 W., in N. central portion of sec. 16, 25 ft W. and 62 ft N. of center of hwy. at rd. NW., on top of W. end of N. one of two concrete pipe culverts; chiseled square (9.3 ft lower than T-rd.)		665.24
73 13.1 Kalona, 2.5 mi W. and 0.5 mi S. from, 4.5 mi E. and 0.75 mi N. of Wellman, T. 77 N., R. 8 W., in N. central portion of sec. 15, 106 ft N. and 30 ft W. of crossroads, 1 ft E. of W. right-of-way fence, in top of concrete post; standard tablet stamped "9 WEK 1969"		663.038
74 13.1 Reference mark, T. 77 N., R. 8 W., in N. central portion of sec. 15, 40 ft N. and 22 ft W. of crossroads, on top of W. end of concrete pipe culvert; chiseled square		661.77
<u>WASHINGTON QUAD. - 69</u>		
75 13.8 UE 9 A, T. 77 N., R. 8 W., in SW $\frac{1}{4}$ sec. 11, at center of State Hwy. 22 at T-rd. W.; copper nail and washer		665.60
76 14.8 UE 9 B, T. 77 N., R. 8 W., between SE $\frac{1}{4}$ sec. 11 and SW $\frac{1}{4}$ sec. 12, 60 ft N. and 24 ft W. of crossroads, on top of S. end of concrete pipe culvert under a drive W.; chiseled square		667.95
77 15.8 Reference mark for "12 SEM 1968", 468 ft SSE. of tablet, 39 ft N. of intersection of State Hwys. 1 and 22, at Kalona, on S. end of N. dividing strip of Hwy. 1 and 0.5 ft higher than pavement; chiseled square		667.72
78 15.9 Kalona, W. edge of, 510 ft N. and 65 ft W. of jct. State Hwys. 1 and 22, 50 ft W. of W. lens, 5 ft S. and 6 ft W. of power pole with switch, 2 ft E. of fence, 1 ft E. of witness tag; a standard tablet on steel rod encased in 6-in. tile stamped "12 SEM 1968" painted "BM"		665.764

LINE 3

FEET

D. W. Bennett, 1966; Book CV 2062

NORTH ENGLISH QUAD. - 94

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| 0.0 Parnell, 1.8 mi N. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at; 8.5 poles N. of milepost 48, at a private rd. crossing, 47 ft W. of the center of the track, 18 ft N. of the center of the gate, 3 ft E. of the right-of-way fence, and about 3 ft higher than the rail; USC&GS standard disk stamped "V 85 1934" and set in top of a concrete post | 792.246 |
| 0.4 UE V 85 A, Tps. 78 and 79 N., R. 10 W., near quarter cor. secs. 3 and 34, at E.-W. gravel rd. and Milwaukee RR. crossing, top of W. rail at center of rd. | 805.3 |
| 1.4 UE V 85 B, T. 78 N., R. 10 W., in SW $\frac{1}{4}$ sec. 3, near a church at NE. edge of Parnell, at an E.-W. gravel rd. and Milwaukee RR. crossing, top of W. rail at center of rd. | 858.2 |
| 2.0 UE V 85 C, T. 78 N., R. 10 W., near N. sixteenth cor. secs. 9 and 10, at S. edge of Parnell, at crossing of N.-S. gravel rd. and Milwaukee RR., top of N. rail at center of rd. | 849.0 |
| 2.8 UE V 85 D, T. 78 N., R. 10 W., near cor. secs. 9, 10, 15 and 16, at a large white farmhouse, punched hole in 12-in. corrugated metal pipe culvert; 21 ft E. and 12 ft N. of drive E. to house | 844.45 |
| 3.6 North English, 2.75 mi N., 3.5 mi E. of, T. 78 N., R. 10 W., near cor. secs. 15, 16, 21 and 22, near the S.-E. Schlabach farmhouse, 510 ft N. and 32 ft W. of T-rd. W., 18 ft SE. of a power pole, 1 ft E. of witness sign; standard tablet set in concrete post; stamped "39 DWB 1966 814" No RM feasible, 500 ft to UE 39 A | 814.106 |
| 3.7 UE 39 A DWB, T. 78 N., R. 10 W., at cor. secs. 15, 16, 21 and 22, 66 ft N. and 12 ft W. of T-rd. W., 1.4 ft lower than T-rd., punched hole in 24-in. corrugated metal pipe culvert | 788.61 |
| 4.8 UE 39 B DWB, T. 78 N., R. 10 W., near cor. secs. 16, 17, 20 and 21, at timber trestle RR. bridge, 2.5 rails S. of rd. crossing, on S. end of bridge, 18 in. W. of W. rail, top of last bolt S. on W. bridge rail (water 10.6 ft lower) | 732.91 |
| 5.5 UE 39 C DWB, T. 78 N., R. 10 W., near center sec. 20, at a concrete and steel bridge on the Milwaukee RR. #I-210, 16.5 rails SW. of a RR. crossing, on top of first bolt head W. of E. bridge abutment, 18 in. S. of S. rail (water 18.0 ft lower) | 716.87 |
| 6.2 North English, about 3.0 mi NE. along C. M. St. P. & P. RR. from the city hall at; 10 poles SW. of milepost 43, at 165 ft concrete bridge No. I-212, in top of NE. corner of SW. concrete abutment; and 9 ft SE. of center of track; a USC&GS standard disk stamped "Y 85 1934" | 725.645 |

LINE 4

C. D. Lien, 1966; Book CV 2044

AMANA QUAD. - 118

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|---|---------|
| 0.0 Middle Amana, 1.5 mi S. along the C. M. St. P. & P. RR. from, 4 poles SW. of milepost 64, at the S. end of the base of the E. abutment of the C. R.I. & P. RR. overhead bridge at waterway bridge No. I-150, and in the S. end of the cover slab; a USC&GS standard disk stamped "K 85 RESET 1943" (NOTE: This BM was established and its elevation determined by engineers of the C.M.St. P. & P. RR., in the fall of 1943; USC&GS elev. of 745.238 for K 85 RESET 1943 could not be reconciled. This elev. by USGS) | 745.358 |
| 1.0 UE, 0.99 mi E. along Hwy. 6 from tablet; a copper nail and washer in center of hwy. at T-rd. S. | 810.32 |
| 1.5 T. 80 N., R. 9 W., near SE. cor. sec. 3, in Homestead, 1.5 mi E. along Hwy. from disk, 13 ft N. and 133 ft E. of jct. Main St. and Hwy. 6; chiseled square on N. end of concrete culvert | 841.49 |

<u>LINE 4 (Cont'd)</u>	<u>AMANA QUAD. - 118</u>	<u>FEET</u>
2.1 UE, T. 80 N., R. 9 W., near the S. sixteenth cor. secs. 2 and 3, Homestead, 0.01 mi N. of post office, 40 ft S., 36 ft E. of hwy. 6 and street S.; a chiseled square on concrete culvert		852.61
2.8 T. 80 N., R. 9 W., near the E. sixteenth cor. sec. 2 and 11, Homestead, 0.75 mi E. along Hwy. 6, 41 ft S., 47 ft E. of center of Hwy. 6, at gravel rd. S.; a standard tablet in a concrete post extending 4 in. above ground; stamped "2 CDL 1966"		857.792
2.8 Reference mark, 20 ft S., 300 ft W. from tablet; a chiseled square in a concrete culvert		857.82
3.5 UE, 0.5 mi E. along Hwy. 6 from tablet at private drive N. to microwave tower; a copper nail and washer in center of hwy.		883.10
4.2 UE, 1.2 mi E. along Hwy. 6 from tablet; a copper nail and washer in center of Hwy. 6 at gravel rd. crossing		876.58
5.0 UE, T. 80 N., R. 8 W., near center sec. 7; Homestead, 2.75 mi E. along Hwy. 6, 22 ft S., 10 ft W. of gravel rd. S. and fenceline N.; a punched hole in a metal culvert, 1.4 ft lower than rd. at T-rd. S.		865.37

OXFORD QUAD. - 93

5.8 Reference mark, 200 ft W. along right-of-way fence from tablet; a rail spike in telephone pole	869.54
5.8 T. 80 N., R. 8 W., near SW. cor. sec. 8, Homestead, 3.62 mi E. along Hwy. 6, 58 ft S., 48 ft W. of T-rd. N., 1 ft N. of right-of-way fence, 2 ft E. of telephone pole, 1.5 ft lower than T-rd. N.; standard tablet in a concrete post stamped "3 CDL 1966"	868.824
6.3 UE, 0.5 mi E. along rd. from tablet, 12 ft S., 33 ft E. of field rd. S., a rail spike in telephone pole	851.25
6.4 UE, T. 80 N., R. 8 W., near NE. cor. sec. 16, Homestead, 3.62 mi E. along Hwy. 6, thence 1.0 mi NE. along rd., 57 ft S., 16 ft E. from rd. E., a reinforcing rod in E. headwall of concrete culvert	859.41
7.0 T. 80 N., R. 8 W., near SW. cor. sec. 10, Homestead, 3.62 mi E. along Hwy. 6, thence 1.6 mi E. along rd., 49 ft S. of center of rd. at bend, 1 ft N. of right-of-way fence; a standard tablet in a concrete post stamped "4 CDL 1966"	858.341
7.1 Reference mark, 0.04 mi E. along gravel rd. from tablet, 30 ft N. of center of rd.; a rail spike in fence post	853.73
8.0 UE, T. 80 N., R. 8 W., near S. sixteenth cor. between secs. 10 and 11, Homestead, 3.62 mi E. along Hwy. 6, thence 2.49 mi E. along rd., 0.9 mi W. from tablet, 20 ft S., 20 ft E. from T-rd. S.; a punched hole in a metal culvert, 1.5 ft lower than T-rd. S.	842.52
9.7 UE, 1.59 mi E. along gravel rd. from tablet; a copper nail and washer in center of bridge, 22 ft higher than water elev. 798.3	798.53

CEDAR RAPIDS QUAD. - 117

9.9 North Liberty, 7.3 mi W. and 0.2 mi N. of post office at, T. 80 N., R. 8 W., near center E $\frac{1}{2}$ sec. 11, 136 ft E., 35.3 ft S. and 4.7 ft higher than center of old T-rd. E., 114 ft SE. of SE. corner of abandoned schoolhouse, 21 ft W. of power pole, 1.8 ft N. of E.-W. fence line, in concrete post projecting 3 in.; standard tablet stamped "30 FDR 1964 801"	801.224
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LINE 5

FEET

F. D. Regan, 1964; Book CV 1764

CEDAR RAPIDS QUAD. - 117

4.4 "30 FDR 1964 801" (described in Line 4) 801.224

IOWA CITY QUAD. - 92

5.2 UE 30 A, 0.76 mi S. along gravel rd. from tablet, T. 80 N., R. 8 W., in NE $\frac{1}{4}$ sec. 14, 35.5 ft W., 19 ft S. and 1.5 ft lower than center of T-rd. W., 0.1 ft above ground, in W. side of powerline pole; head of rail spike 849.27

5.9 UE 30 B, 1.5 mi S. along gravel rd. from tablet, T. 80 N., R. 8 W., near E. eighth cor. between secs. 14 and 23, 39 ft N., 37 ft W. and 0.2 ft higher than center of N.-S. rd. at private drive W. to Mrs. Elmer Kutcher farmhouse, in NW. side of powerline pole and level with ground; head of rail spike 828.18

6.6 UE 30 C, 2.2 mi S. along gravel rd. from tablet, T. 80 N., R. 8 W., in SE $\frac{1}{4}$ sec. 23, 67.8 ft NW. of T-rd. S., 51 ft NE. and 0.8 ft lower than center of T-rd. N., 24.3 ft N. of center of U.S. Hwy. 6 at 4.5 x 8.5 ft concrete box culvert headwall; IHC BM (elev. by USGS) 722.85

7.2 Reference mark, 135.3 ft E. of tablet, 70 ft E. and 25.3 ft S. of center of rd. at right-angle curve, 2.3 ft N. of E.-W. right-of-way fenceline, 0.4 ft above ground, in W. side of 5-in. elm tree; head of rail spike 739.44

7.2 Oxford, 2.3 mi E. and 0.5 mi S. of, T. 80 N., R. 8 W., at quarter cor. between secs. 23 and 26, 64.6 ft WSW. and 0.4 ft higher than center of rd. at right-angle curve, 29 ft S. of E.-W. trail leading into woods to small dump, 12 ft N. of 20-in. elm tree, 10.4 ft S. of 24-in. white oak tree, in concrete post; projects 4 in.; standard tablet stamped "31 RDS 1964 739" 739.277

OXFORD QUAD. - 93

8.3 UE 31 A, 1.06 mi generally SW. along dirt rd. from tablet, T. 80 N., R. 8 W., at quarter cor. between secs. 26 and 27, about 320 ft S. of T-rd. W., 12 ft NW. and 0.7 ft higher than center of N.-S. rd. at culvert, in center of W. concrete headwall of 4 x 10 ft box culvert; chiseled square 734.50

9.0 UE 31 B, about 1.0 mi (airline) S. of tablet, T. 80 N., R. 8 W., about 1200 ft W. of quarter cor. between secs. 26 and 35, 224 ft N. of T-rd. E., 17 ft E. and 2.4 ft lower than center of T-rd. E., in top of E. end of 24-in. circular metal culvert; punched hole 796.6

9.8 Oxford, 2.2 mi S. and 1.7 mi E. of, T. 80 N., R. 8 W., near S. eighth cor. between secs. 34 and 35, about 900 ft S. of T-rd. W., 112.7 ft N., 16 ft W. and 0.5 ft higher than center of concrete overpass over Interstate Hwy. 80 in W. end of N. concrete overpass abutment; standard tablet stamped "32 FDR 1964 843" 843.350

9.8 Reference mark, 222.5 ft S. of tablet, 112.7 ft S. and 16 ft E. of center of concrete overpass over Interstate Hwy. 80, in E. end of S. concrete overpass abutment; standard IHC BM 843.31

IOWA CITY QUAD. - 92

11.1 UE 32 A, 0.3 mi S. and 1.0 mi E. along gravel rds. from tablet, T. 80 N., R. 8 W., in SE. corner SE $\frac{1}{4}$ sec. 35, 42 ft E., 29 ft N. and 3.3 ft lower than center of T-rd. S., 0.2 ft above ground, in SW. side of powerline pole; head of rail spike 780.64

12.1 UE 32 B, 0.3 mi S., 1.0 mi E. and 1.0 mi S. along gravel rds. from tablet, T. 79 N., R. 8 W., at cor. secs. 1, 2, 11 and 12, 17.4 ft N., 15 ft E. and 0.7 ft lower than center of crossroads, in top of W. end of N. concrete culvert headwall; chiseled square 786.62

<u>LINE 5 (Cont'd)</u>	<u>IOWA CITY QUAD. - 92</u>	<u>FEET</u>
13.1 Tiffin, 3.5 mi W. and 3.4 mi S. of post office at, T. 79 N., R. 8 W., in SW. cor. SW $\frac{1}{4}$ sec. 12, 146.4 ft N., 99 ft E. and 1.4 ft higher than center of crossroads, 6.2 ft N. of NW. corner of small white building, in W. side of 3.9 ft triangular concrete foundation of telephone relay tower; standard tablet stamped "33 FDR 1964 820"		820.301
13.1 Reference mark, 135 ft SW. of tablet, 27 ft E. and 24 ft N. of crossroads, in top of W. end of 18-in. circular metal culvert; punched hole		816.18
14.2 UE 33 A, 1.1 mi S. along blacktop rd. from tablet, T. 79 N., R. 8 W., in NW $\frac{1}{4}$ sec. 24, 41 ft S., 31.5 ft E. and 0.9 ft higher than center of T-rd. E., at Cosgrove, 1.8 ft W. of fence on W. side of churchyard, in E. edge of concrete sidewalk; square (chiseled)		804.66
15.3 UE 33 B (described in Line 1)		692.28

LINE 6

<u>F. D. Ragan, 1964; Book CV 1764</u>	<u>IOWA CITY QUAD. - 92</u>	
5.4 UE 39 FDR B, 2.0 mi W. along dirt and gravel rd. from tablet, T. 78 N., R. 8 W., in SE. cor. SE $\frac{1}{4}$ sec. 35, 20 ft N., 20 ft W. and 0.5 ft lower than center of T-rd. N. at offset crossroads, in top of W. end of 24-in. circular metal culvert; punched hole		752.1
6.4 Kalona, 2.7 mi N. and 1.0 mi W. of jct. State Hwys. 1 and 22, at, T. 78 N., R. 8 W., at cor. secs. 25, 26, 35 and 36, 198 ft SE. of Prairie Dale Schoolhouse, 29.6 ft W., 27.5 ft S. and 0.5 ft lower than center of T-rd. S., at offset crossroads, in top of SE. end of SW. concrete culvert headwall; standard tablet stamped "40 FDR 1964 702"		701.831
6.4 Reference mark, 191 ft NW. of tablet, 7.5 ft SE. of center of S. entrance to Prairie Dale schoolhouse (not in use), in top of SE. corner of concrete entrance platform to school; chiseled square		704.36
7.5 UE 40 A, 1.0 mi N. along gravel rd. from tablet, T. 78 N., R. 8 W., cor. secs. 23, 24, 25 and 26, 28.2 ft S., 23.7 ft W. and 1.5 ft lower than center of crossroads, in top of W. end of 24-in. circular metal culvert; punched hole		765.0
8.4 UE 40 B, 2.0 mi N. along gravel rd. from tablet, T. 78 N., R. 8 W., near cor. secs. 13, 14, 23 and 24, 322.3 ft S., 56 ft W. and 3.3 ft lower than center of crossroads, 8 ft NE. of most southern one of two entrances on E. side of church, in NE. corner of sidewalk platform; chiseled square		782.70
9.2 Reference mark, 69 ft SE. of tablet, 24.5 ft S., 26.8 ft E. of center of N.-S. rd. at cross fences, 14.5 ft S. of field entrance E., 6.4 ft W. of N.-S. right-of-way fenceline, in top of S. end of 12-in. circular metal culvert; punched hole		780.63
9.2 Kalona, 5.7 mi N. and 1.0 mi W. of jct. of State Hwy. 1 and 22 at; about 0.35 mi (airline) SE. of Williamstown, T. 78 N., R. 8 W., about 1250 ft S. of cor. secs. 11, 12, 13 and 14, about 1250 ft S. of crossroads, 38 ft W. and 3.3 ft higher than center of N.-S. rd. at cross fences, 4.6 ft WSW. of NE. fence corner, 2.6 ft E. of most northern pole of double wooden pole transmission line, 1.3 ft S. of E.-W. fenceline, in concrete post; projecting 3 in.; standard tablet stamped "41 FDR 1964 787"		786.828
10.5 UE 41 A, 1.25 mi N. along gravel rd. from tablet, T. 78 N., R. 8 W., at cor. secs. 1, 2, 11 and 12, 78 ft S., 26.4 ft from and 5.7 ft higher than center of T-rd. S., 24.1 ft S. of W. entrance to schoolhouse, 19.7 ft N. of power pole, in NW. corner of a 3.3 x 3.3 ft abandoned concrete well curb; chiseled square		708.39

LINE 6 (Cont'd)

IOWA CITY QUAD. - 92

FEET

- 11.6 UE 41 B, 2.4 mi generally N. along gravel rds. from tablet, T. 78 N., R. 8 W., in NE $\frac{1}{4}$ sec. 2, 450 ft S. and 3.5 ft lower than center of N.-S. rd. at steel bridge over old Mans Creek, 27 ft E., 12 ft N. and 0.8 ft lower than center of N.-S. rd. at cross field entrances, in top of N. end of 36-in. metal culvert; (circular), punched hole 682.1
- 12.5 Reference mark, 138.5 ft W. of tablet, 5 ft S. and 9.5 ft W. of center of E.-W. rd. at field entrances S., in top of W. end of 12-in. circular metal culvert; punched hole 693.56
- 12.5 Kalona, 8.2 mi N. and 1.2 mi W. of jct. of State Hwys. at; T. 79 N., R. 8 W., near center E $\frac{1}{2}$ sec. 35, about 800 ft E. of crossroads, about 150 ft SW. of large red barn, 15 ft N. and 0.8 ft lower than center of E.-W. rd. at culvert, in top of and 1 ft W. of center of N. concrete headwall of 2 x 3 ft concrete box culvert; standard tablet stamped "42 FDR 1964 697" 696.443
- 13.3 UE 42 A, 0.15 mi W. along gravel rd. and 0.65 mi N. along blacktop rd. from tablet, T. 79 N., R. 8 W., about 750 ft N. of cor. secs. 25, 26, 35 and 36, about 450 ft N. of N.-S. rd. at private drive W. to farmhouse, 35 ft E., 12.5 ft S. and 5.4 ft lower than center of N.-S. rd. at private rd. E. leading to farm residence, in top of S. end of 18-in. circular metal culvert; punched hole 775.7
- 14.1 UE 33 B; chiseled square (described in line 1) 692.28