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THIRD ORDER LEVELS

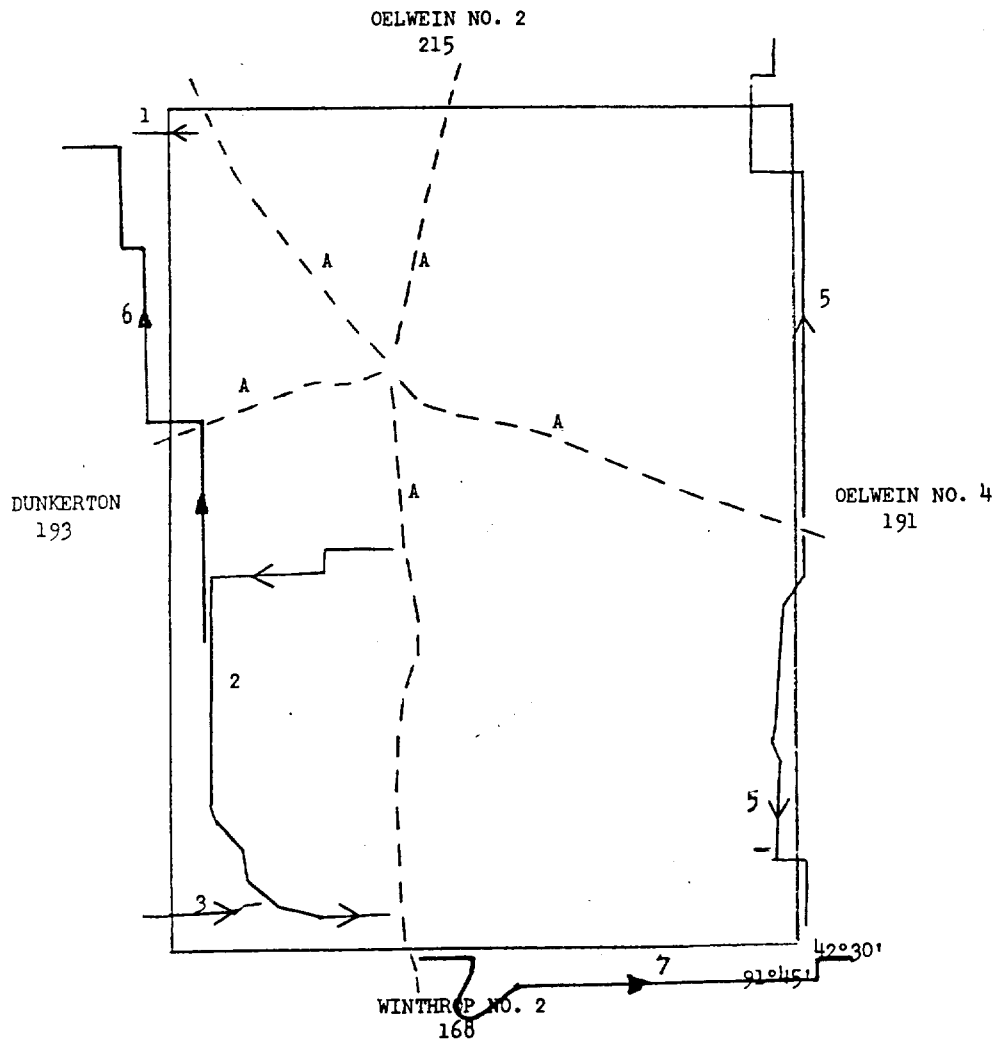
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-091-43
OELWEIN NO. 3 QUADRANGLE
192 - IOWA
N4230-W9145/15
DIAGRAM NK 15-6
DUBUQUE

Buchanan and Fayette Counties

Edition of: 3-1-78

PR:ADP/cb



USC&GS VERTICAL CONTROL DATA
A. Quadrangle 420914

192B

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42-091-43

CELWEIN NO. 3 QUADRANGLE
192 - IOWA

LINE 1

FEET

C. L. Brutchfield, 1969; Book CV 2490

CELWEIN NO. 3 QUAD. - 192

3 18 1.0 Westgate, Fayette County, 1.7 mi SE. along the Chicago, Great Western RR. from the station at; 0.4 mi NW. of milepost 174, at the crossing of a section rd., 54 ft N. of the center of the rd., 45.3 ft NE. of the NE. rail, 25.7 ft NW. of one right-of-way fence, and 2 ft SW. of another right-of-way fence; USC&GS standard disk stamped "E 38 1934" and set in the top of a concrete post projecting about 4 in. above ground 1079.335

18 1.1 UE E 38 A, 680 ft W. and 7.7 ft higher than tablet, center of crossroads; a RR. spike, painted "UE E A" 1087.02

DUNKERTON QUAD. - 193

18 1.2 UE E 38 B, 1.2 mi W. along a county rd. from tablet, 18 ft S. and 372 ft W. and 2.0 ft lower than T-rd. S., top of the S. end of the most eastward concrete tile culvert; a chiseled square, painted "UE E B" 1067.81

18 1.1 UE E 38 C, 2.1 mi W. along a county rd. from tablet, 25 ft S. and 25 ft W. and 4.3 ft lower than T-rd. E., top of the S. end of a metal corrugated culvert; a punched hole, painted "UE E C" 1048.32

21 3.5 At Downing Park, 0.25 mi S. of cor. secs. 28, 29, 32 and 33, T. 92 N., R. 10 W., 315 ft N. and 220 ft W. and 6.3 ft lower than crossroads, at the concrete base of a playground slide; a standard tablet flush with the ground, and stamped "61 CLC 1969 1018" 1017.999

LINE 2

C. L. Brutchfield, 1969; Book CV 2490

CELWEIN NO. 3 QUAD. - 192

3 46 0.0 Hazleton, Buchanan County, 0.2 mi NW. along the Chicago, Rock Island and Pacific RR. from the school at; 18 poles N. of milepost 49, at steel bridge 496, in the top of the W. end of the S. abutment, 7 ft W. of the center of the track, and about 2.5 ft lower than the track; USC&GS standard disk stamped "U 74 1934" 993.663

47 1.6 UE 995 A, 0.4 mi W. along Co. Route "D" from tablet, 12 ft S., 45 ft W. and 0.6 ft lower than center of concrete bridge over Otter Creek; top of a steel rivet a chiseled cross, painted "UE 995 A" 984.91

48 1.5 UE 995 B, near cor. secs. 8, 9, 16 and 17, T. 90 N., R. 9 W., 30 ft N. and 33 ft W. and 3.6 ft lower than T-rd. W.; top of the N. end of a concrete tile culvert; a chiseled square, painted "UE 995 B" 1030.93

49 2.2 UE 995 C, 0.25 mi W. of the center of secs. 8 and 17, T. 90 N., R. 9 W., 62 ft S. and 31 ft W. and 1.3 ft lower than crossroads; top of the S. end of a concrete tile culvert; a chiseled square, painted "UE 995 C" 1002.14

50 1.8 Hazleton, 0.3 mi S. and 2.3 mi W. of, 0.3 mi W. of the cor. secs. 7, 8, 17 and 18, T. 90 N., R. 9 W., 11 ft S. and 61 ft W. and 1.8 ft higher than center of Bridge over Hune Creek; top of the SW. wheelguard; a steel plug, stamped "TBM U.S." 990.17

51 2.9 Reference mark, 21 ft N. and normal to TBM, top of the NW. wheelguard; a chiseled square, painted "RWT" 990.13

52 3.7 UE 66 A, 0.9 mi W. along a county rd. from bolt, 53 ft N. and 13 ft W. and 0.6 ft lower than center of E.-W. gravel rd. at fence line N. on the S. side of a fence post; a RR. spike, painted "UE 66 A" 1033.77

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OELWEIN NO. 3 QUADRANGLE
193 - IOWA

LINE 2 (Cont'd)

OELWEIN NO.3 QUAD. - 192

FEET

3 53 4.5	UE 66 B, 1.6 mi W. along a county rd. from bolt, 43 ft N. and 27 ft E. and 3.0 ft lower than crossroads, top of the E. end of a concrete tile culvert; a chiseled square, painted "UE 66 B"	1025.53
54 5.5	UE 66 C, 1.6 mi W., thence 1.0 mi S. along a county rd. from bolt, 83 ft S. and 113 ft E. and 2.2 ft lower than crossroads; top of the SW. corner of a water pump foundation, at the school grounds; a chiseled square, painted "UE 66 C"	1010.37
55 5.8	Bryantsburg, 1.0 mi N. and 4.0 mi W. of, 0.25 mi S. of cor. secs. 13, 14, 23 and 24, T. 90 N., R. 10 W., 11 ft N. and 27 ft E. and 2.2 ft lower than center of N.-S. gravel rd. at an E.-W. fence line, top of the E. end of the most southern three concrete tile culverts; a standard tablet stamped "67 CLC 1969"	995.501
56 5.8	Reference mark, 44 ft W. of center of N.-S. rd. at E.-W. fenceline, 11 ft S. and 71 ft W. and 1.8 ft lower than tablet, top of the S. end of a concrete tile; a chiseled square, painted "RM"	993.65
57 6.6	UE 67 A, 0.7 mi S. along a county rd. from tablet, 41 ft S. and 78 ft W. and 4.2 ft lower than crossroads, top of the E. end of a metal corrugated culvert; a punched hole, painted "UE 67 A"	1012.06
58 7.1	UE 67 B, 1.2 mi S. along a county rd. from tablet, 36 ft S. and 30 ft W. and 2.9 ft lower than T-rd. W., top of the W. end of a concrete tile culvert; a chiseled square, painted "UE 67 B"	1008.30
59 7.6	UE 67 C, 1.7 mi S. along a county rd. from tablet, 27 ft S. and 39 ft E. and 3.5 ft lower than T-rd. E., top of the S. end of a concrete tile culvert; a chiseled square, painted "UE 67 C"	1004.35
60 8.3	UE 67 D, 2.4 mi S. along a county rd. from tablet, 19 ft S. and 30 ft W. and 2.4 ft lower than T-rd. W., top of the S. end of a concrete tile culvert; a chiseled square, painted "UE 67 D"	1001.17
61 9.3	Littleton, 0.8 mi N. and 2.0 mi E. of, 0.25 mi N. of the cor. secs. 1, 2, 11 and 12, T. 89 N., R. 10 W., 35 ft S. and 25 ft W. and 1.5 ft lower than T-rd. W., top of the W. end of a large concrete tile culvert; a standard tablet stamped "68 CLC 1969"	984.748
62 9.3	Reference mark, 51 ft E. and 0.8 ft lower than tablet, top of the E. end of a large concrete tile culvert; a chiseled square, painted "RM"	983.90
63 10.1	UE 68 A, 0.8 mi SE. along a county rd. from tablet, 32 ft S. and 78 ft W. and 3.9 ft lower than T-rd. W., top of the S. end of a concrete tile culvert; a chiseled square, painted "UE 68 A"	984.36
64 11.0	UE 68 B, 1.7 mi SE. along a county rd. from tablet, 57 ft N. and 17 ft E. and 1.7 ft lower than T-rd. W., top of the S. end of a concrete tile culvert; a chiseled square, painted "UE 68 B"	924.37
65 11.8	UE 68 C, 2.4 mi SE. along a county rd. from tablet, 50 ft S. and 95 ft W. and 3.8 ft lower than T-rd. N. on the N. side of a power pole; a pole spike and collar; (USGS Water Resources) painted "UE 68 C"	920.94
66 11.8	At Otterville, 0.3 mi SE. of the center secs. 18 and 19, T. 89 N., R. 9 W., 13 ft E. and 3.5 ft lower than center of bridge over Otter Creek; top of the concrete piling; a standard tablet stamped "69 CLC 1969"	919.092
67 12.6	Reference mark, 82 ft S. and 5 ft E. and 3.5 ft higher than tablet, top of the SE. wingwall; a chiseled square, painted "RM"	922.63

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OELWEIN NO. 3 QUADRANGLE
192 - IOWALINE 2 (Cont'd)OELWEIN NO. 3 QUAD. - 192FEET

- 3 68 14.1 UE 69 A, 1.4 mi SE. along County Rte. "P" from tablet, 34 ft S. and 15 ft E. and 2.7 ft lower than T-drive S. of Margret Hayward residence, top of the E. end of a metal corrugated culvert; a punched hole, painted "UE 69 A" 917.46
- 69 14.7 UE 69 B, 2.0 mi SE. along County Route "P" from tablet, 17 ft S. and 17 ft W. and 0.7 ft lower than center of concrete bridge over a creek, top of the SW. wingwall; a chiseled square, painted "UE 69 B" 917.65
- 70 15.4 Independence, Buchanan County, 2.2 mi NW. along the C.R.I.&P. RR. from the station at; 1.5 poles NW. of milepost 41, 175 yards NW. of the center of a rd. crossing, at a 4 x 6 ft stone culvert, in the top of the SE. end, 9 ft NE. of the center of the track, and about 2 ft lower than the track; a USC&GS standard disk stamped "Z 74 1934" 928.578

LINE 3C. L. Crutchfield, 1969; Book CV 2490DUNKERTON QUAD. - 193

- 4 24 13.4 UE 74 A, 0.5 mi E. along a county rd. from bolt, 43 ft S. and 25 ft E. and 2.1 ft lower than T-rd. S., top of the E. end of a concrete tile culvert; a chiseled square, painted "UE" 965.77
- 25 13.8 UE 74 B, 1.0 mi E. along a county rd. from bolt, center of concrete bridge floor; a chiseled square, painted "UE centerline" 931.00

OELWEIN NO. 3 QUAD. - 192

- 26 14.4 UE 74 C, 1.6 mi E. along a county rd. from bolt, 24 ft S. and 96 ft E. and 2.3 ft lower than T-drive S., top of the S. end of a concrete tile culvert; a chiseled square, painted "UE" 950.50
- 27 15.4 UE 74 D, 2.5 mi E. along a county rd. from bolt, 23 ft S. and 220 ft W. and 0.6 ft lower than T-rd. S., top of the S. end of the most eastward of 3 concrete tile culverts; a chiseled square, painted "UE" 937.14
- 28 15.9 UE, Ottersville, 0.5 mi N. and 1.1 ft lower than center of bridge over Wapsipinicon River, top of steel rivet stamped "U.S. BM" (This UE was intended for BM 75, which was omitted) 916.36
- 29 15.9 Reference mark, 98 ft N. of bolt; about 4.25 mi W. and 1.0 mi N. of Jct. Hwy. 150 and County Rd. "P"; at Otterville bridge over Wapsipinicon River, on left downstream corner on end of wingwall; a chiseled square 917.25
- 30 16.5 UE 68 C (described in Line 2) 920.94

LINE 4J. R. Ennis, 1964; Book CV 1724OELWEIN NO. 4 QUAD. - 191

- 0.0 Aurora, 1.6 mi NW. along Chicago and Great Western RR. from station at; 22 poles NW. of milepost 236, at a 75 ft steel bridge, in top of S. end of W. concrete abutment, 10 ft S. of center of S. track, and about 1 ft lower than track; a USC&GS standard disk stamped "Y 73 1934" 1099.863
- 1.5 UE, 142 ft W. along RR. from crossing of N.-S. rd., 31 ft S. of track, on top of E. end of S. headwall of large concrete box culvert; chiseled square 1107.04
- 0.8 UE, about 400 ft E. of quarter cor. secs. 11 and 12, T. 90 N., R. 6 W., 28 ft S. and 21 ft E. of T-rd. S., on E. end of corrugated steel culvert; chiseled cross 1107.72

LINE 4 (Cont'd)OELWEIN NO. 4 QUAD. - 191FEET

1.6	UE, 31 ft W. and 12 ft N. of center of bridge over, on top of NW. wingwall of steel truss bridge; a chiseled square	1077.56
2.1	UE, in SE $\frac{1}{4}$ sec. 14, T. 90 N., R. 8 W., 19 ft E. of rd. on E. end of 36-in. corrugated steel culvert; chiseled cross	1099.20
2.5	Aurora, 1.5 mi S. and 1.5 mi W. of, near quarter cor. secs. 14 and 23, T. 90 N., R. 8 W., 57 ft N. and 75 ft E. of crossroads, 2 ft NE. of gatepost, in concrete post; standard tablet stamped "8 LL 1964"	1132.302
2.6	Reference mark, 440 ft S. of tablet, 22 ft E. of rd., on E. end of 24-in. concrete pipe culvert; chiseled square	1131.65
3.0	UE, center sec. 23, T. 90 N., R. 8 W., center of N.-S. rd. at fences E.-W.	1134.0
3.8	UE, 0.25 mi N. of center sec. 26, T. 90 N., R. 8 W., 79 ft N. and 23 ft E. of crossroads, on E. end of middle one of three large concrete culverts; chiseled square	1071.33
4.5	UE, at quarter cor. secs. 26 and 35, T. 90 N., R. 8 W., 30 ft N. and 24 ft W. of T-rd. E., on N. end of small concrete pipe culvert; chiseled square	1048.93
5.0	UE, near center sec. 35, T. 90 N., R. 8 W., 22 ft N. and 30 ft W. of T-rd. W., on N. end of concrete pipe culvert; chiseled square	1038.74
5.5	Reference mark, 240 ft N. of tablet, 24 ft W. of rd., on W. end of N. one of two large concrete pipe culverts; chiseled square	1035.09
5.6	Aurora, 4.5 mi S. and 1.5 mi W. of, 6.0 mi N. and 1.0 mi W. of Winthrop, near quarter cor. secs. 2 and 35, Tps. 89 and 90 N., R. 8 W., 43 ft S. and 41 ft E. of rd. at fence W., 7 ft N. of telephone pole, 1 ft E. of fence, in concrete post; standard tablet stamped "9 LL 1964"	1037.023
6.1	UE, center sec. 2, T. 89 N., R. 8 W., center of rd. at fence W.	1040.8
6.6	UE, at quarter cor. secs. 2 and 11, T. 89 N., R. 8 W., 9 ft N. and 16 ft E. of T-rd. W., on E. end of concrete pipe culvert; chiseled square	1067.56
7.0	UE, about 100 ft N. of center sec. 11, T. 89 N., R. 8 W., 19 ft E. of center of rd., on E. end of S. one of two concrete pipe culverts; chiseled square	1063.36
7.6	UE, near quarter cor. secs. 11 and 14, T. 89 N., R. 8 W., about 130 ft E. of T-rd. N., 34 ft S. of rd., on highest part of granite boulder, partially in front yard and partially in exposed ditch; painted square	1100.2
<u>OELWEIN NO. 4 QUAD. - 191</u>		
8.0	Winthrop, 4.0 mi N. and 0.5 mi W. of at cor. secs. 11, 12, 13 and 14, T. 89 N., R. 8 W., 40 ft S. and 221 ft W. of T-rd. S., 8 ft E. of powerline pole, 1 ft N. of fence, in concrete post; standard tablet stamped "10 LL 1964"	1034.482
8.1	Reference mark, 200 ft E. of tablet, 38 ft S. and 24 ft W. of T-rd. S., on W. end of S. one of two concrete pipe culverts; chiseled square	1030.87
8.6	UE, 9 ft S. and 21 ft E. of rd. at drive E., on S. end of old corrugated steel culvert; a chiseled scratch	1055.45
9.1	UE, near cor. secs. 13, 14, 23 and 24, T. 89 N., R. 8 W., 54 ft N. and 16 ft E. of T-rd. W., 2 ft N. of S. end of E. headwall of concrete box culvert; chiseled cross	1057.22

LINE 5

FEET

J. R. Ennis, 1964; Book CV 1724

OELWEIN NO. 4 QUAD. - 191

0.0	UE, 142 ft W. along RR. from crossing of N.-S. rd., 31 ft S. of track, on top of E. end of S. headwall of large concrete box culvert; chiseled square	1107.04
0.8	UE, at quarter cor. secs. 1 and 2, T. 90 N., R. 8 W., 12 ft S. and 32 ft W. of rd. at drive W., on S. end of concrete pipe culvert; chiseled square	1105.98
1.3	UE, at cor. secs. 1, 2, 35 and 36, Tps. 90 and 91 N., R. 8 W., 30 ft N. and 17 ft W. of crossroads, on W. end of corrugated steel culvert; chiseled cross	1144.60
1.8	UE, at quarter cor. secs. 35 and 36, T. 91 N., R. 8 W., center of rd. at fences E.-W.	1150.4
2.3	Aurora, 2.5 mi N. and 1.0 mi W. of, at cor. secs. 25, 26, 35 and 36, T. 91 N., R. 8 W., 35 ft S. and 102 ft W. of crossroads, 3 ft S. of fence, in edge of cultivated field, in concrete post; USC&GS R.M. tablet stamped "SCHUG NO 1 1935"	1159.201
2.4	Reference mark 2, 84 ft W. of R.M. 1, 29 ft N. of rd., in concrete post; projecting 1 ft on N. side, and 2 ft on S. side and leaning slightly; S. toward ditch; a USC&GS Δ disk stamped "SCHUG NO 2 1935"	1160.286
2.9	UE, at quarter cor. secs. 25 and 26, T. 91 N., R. 8 W., 16 ft N. and 27 ft E. of rd. at fences E.-W., on N. end of concrete culvert; chiseled square	1126.63
3.4	UE, at cor. secs. 23, 24, 25 and 26, T. 91 N., R. 8 W., 33 ft N. and 34 ft W. of crossroads, 6 in. ESE. of a fence post, on concrete foundation of post; chiseled square	1136.92
3.9	UE, at quarter cor. secs. 23 and 24, T. 91 N., R. 8 W., 25 ft E. of rd. at fence E., on S. end of concrete culvert; chiseled square	1136.41
4.4	UE, at cor. secs. 13, 14, 23 and 24, T. 91 N., R. 8 W., 28 ft S. of State Hwy. 3, 21 ft W. of gravel rd., on SE. corner of SW. headwall of concrete box culvert; chiseled square	1112.81
4.9	UE, at quarter cor. secs. 13 and 14, T. 91 N., R. 8 W., rd. at fence W. (offset cross fence)	1110.9
5.4	Reference mark, about 230 ft S. of tablet, 19 ft N. and 35 ft E. of crossroads, on N. end of concrete pipe culvert; chiseled square	1131.15
5.5	Arlington, 3.0 mi S. and 4.0 mi W. of, near cor. secs. 11, 12, 13 and 14, T. 91 N., R. 8 W., 263 ft N. and 34 ft E. of crossroads, 4 ft S. of telephone pole, 1 ft W. of fence in concrete post; standard tablet stamped "13 LL 1964"	1134.235
6.1	UE, 0.6 mi N. of tablet, 3 ft N. and 9 ft W. of wooden bridge, on NW. corner of bridge abutment; copper nail and washer	1133.45
6.7	UE, 1.2 mi N. of tablet, 17 ft E. of rd., 2 ft W. of E. end of N. one of two 66-in. steel corrugated culverts; on head of bolt; chiseled square	1142.35
7.4	UE, at cor. secs. 1, 2, 35 and 36, Tps. 91 and 92 N., R. 8 W., 25 ft S. and 18 ft W. of T-rd. S., on W. end of steel pipe culvert; chiseled cross	1167.94
<u>OELWEIN NO. 3 QUAD. - 192</u>		
8.0	UE, about 250 ft W. of quarter cor. secs. 2 and 35, Tps. 91 and 92 N., R. 8 W., 15 ft S. of rd., 3 ft N. of S. end of 66-in. concrete pipe culvert; a drill hole through culvert	1159.26

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OELWEIN NO. 3 QUADRANGLE
192 - IOWA

LINE 5 (Cont'd)

OELWEIN NO. 3 QUAD. - 192

FEET

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| 8.4 Reference mark, 95 ft S. of tablet, 19 ft N. and 27 ft W. of crossroads, on N. end of concrete pipe culvert; chiseled square | 1170.83 |
| 8.5 Arlington, 1 mi S. and 5 mi W. of, at Garden Prairie Church, near cor. secs. 2, 3, 34 and 35, Tps. 91 and 92 N., R. 8 W., 112 ft N. and 44 ft W. of crossroads, 1 ft E. of churchyard fence, in concrete post; standard tablet stamped "14 LL 1964" | 1175.676 |
| 8.9 UE, at quarter cor. secs. 34 and 35, T. 92 N., R. 8 W., center of road at fences E.-W. | 1185.8 |
| 9.5 UE, at cor. secs. 26, 27, 34 and 35, T. 92 N., R. 8 W., 22 ft N. and 27 ft E. of crossroads, on N. end of concrete culvert; chiseled square | 1177.92 |
| <u>OELWEIN NO. 2 QUAD. - 215</u> | |
| 9.9 UE, at quarter cor. secs. 26 and 27, T. 92 N., R. 8 W., center of road at fence W. (offset cross fence) | 1182.7 |
| 10.5 UE, cor. secs. 22, 23, 26 and 27, T. 92 N., R. 8 W., at center of crossroads; head of a rail spike | 1198.58 |
| 11.0 UE, at quarter cor. secs. 23 and 26, T. 92 N., R. 8 W., 60 ft N. and 36 ft E. of T-rd. N., on top of 4-in. concrete post projecting 6-in.; top of reinforcing rod | 1193.21 |
| 11.6 Reference mark, 350 ft S. of tablet, 31 ft E. of road, in W. side of powerline pole; head of a rail spike | 1157.03 |
| 11.7 Arlington, 1.7 mi N. and 4.5 mi W. of, about 0.25 mi N. of T-rd. E.; center of secs. 23, T. 92 N., R. 8 W., near crest of hill, 52 ft S. and 32 ft E. of road at field entrance W., 4 ft N. of powerline pole, 1 ft W. of fence, in concrete post; standard tablet stamped "15 LL 1964" | 1162.921 |

LINE 6

C.D. Lien, 1977; Book CV-3390

OELWEIN NO. 3 QUAD. - 192

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| 2 2 0.0 Bryantsburg, 1 mi N. and 4 mi W. of, 0.25 mi S. of cor. secs. 13, 14, 23 and 24, T. 90 N., R. 10 W., 11 ft N. and 27 ft E. and 2.2 ft lower than center of N.-S. gravel road at an E.-W. fence line, top of the E. end of the most southern three concrete tile culverts; a standard tablet stamped "67 CLC 1969" | 995.501 |
| 7 2.3 UE 66 AA, 2.3 mi N. along road from tablet, 102 ft N. and 40 ft W. of; and 1.3 ft lower than crossroads; and 1 ft N. and 4.7 ft E. of the SE. cor. of a school house, a chiseled square on the SE. cor. of a concrete step to entrance of school house | 1036.87 |

LINE 6 (Cont'd)

OLEWEIN NO. 3 QUAD. - 192

FEET

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|------|-----|--|----------|
| 2 10 | 3.3 | BM, Fairbanks, 3 mi E. of; T. 90 and 91 N., R. 10 W., sec. cors. 1, 2, 35 and 36, 71 ft N., and 66 ft E. of; and 4.8 ft lower than crossroads and 1 ft S. and 11 ft E. of a large concrete post for right-of-way fence line, set on top of a 0.5-in. copper coated steel rod which is set inside of a 6-in. tile, a standard tablet stamped "4 CDL 1977" | 1045.530 |
| 13 | 4.3 | UE 4 A, 1 mi N. along road from tablet, 20 ft N. and 32 ft W. of; and 3.5 ft lower than crossroads, a chiseled square on the top of a concrete culvert | 1061.27 |
| 17 | 5.8 | UE 4 B, 1 mi N. and 1.5 mi W. along road from tablet; 54 ft S. and 24 ft E. of and 2.9 ft lower than crossroads, 8 ft S. and 24 ft E. of centerline of road at field entrance E. a chiseled square, on a concrete culvert | 1034.31 |

DUNKERTON QUAD. - 193

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| 19 | 6.3 | Reference mark, 12 ft N. and 27 ft E. of centerline of road at cross field entrances, 30 ft N. and 27 ft E. of centerline of road at E.-W. fences, 30 ft N. and 58 ft E. of tablet, a chiseled square on a concrete culvert | 1027.21 |
| 20 | 6.4 | BM, Fairbanks, 1.5 mi N. and 1.5 mi E. of; T. 91 N., R. 10 W., near the center of secs. 27, 31 ft W. of; and 1.7 ft lower than centerline of road at E.-W. fence lines, 14 ft S. and 31 ft W. of centerline of road at cross field entrances and 1.2 ft E. of a fence corner set on top of a 0.5-in. copper coated steel rod which is set inside a 6-in. tile, a standard tablet stamped "5 CDL 1977" | 1028.140 |
| 24 | 7.4 | UE 5 A, 1.05 mi N. along road from tablet; 300 ft N. of quarter cor. and 20 ft E. of; and 2 ft lower than centerline of road at drain; a punched hole in a metal culvert, the most northerly one of two metal culverts | 1030.49 |
| 27 | 8.9 | UE 5 C, 2.5 mi N. along road from tablet, 34 ft S. and 6 ft W. of; and 2.3 ft higher than centerline of crossroads and 1 ft S. of the NW. cor. of overpass on top of a spike in NW. cor. of overpass, first spike S. of the NW. corner overpass | 1066.59 |
| 28 | 9.6 | Reference mark, 12 ft S. and 72 ft E. of tablet and 24 ft S. and 10 ft W. of centerline of road at field entrance S., a chiseled square on a concrete culvert | 1018.49 |
| 29 | 9.6 | BM, Fairbank, 4.5 mi N. and 1.2 mi E. of; T. 91 N., R. 10 W., near the quarter cor. between secs. 9 and 10, 16 ft S. and 7 ft E. of centerline of; 7.5 ft lower than centerline of bridge, cemented in the SE. cor. of a concrete base of floor of drain, a standard tablet stamped "6 CDL 1977" | 1016.590 |
| 21 | 11.3 | Fairbank, 6 mi N. and 1 mi E. of; T. 91 and 92 N., R. 10 W., near sec. cors. 3, 4, 33 and 34, 255 ft S. and 32 ft E. of crossroads, 4 ft N. of a power pole and 2 ft N. of a witness post set in the top of a concrete post which projects 4-in., a standard N.G.S. disk stamped "AZIMUTH MARK ORAN 1961" | 1061.553 |

LINE 6 (Cont'd)DUNKERTON QUAD. - 193

- 2 33 12.4 UE b B, 0.8 mi N. and 0.3 mi W. along road from tablet, 11 ft N. and 21 ft E. of; 0.4 ft lower than centerline of a wooden bridge on top of a copper nail and washer in a bridge piling in the NE. cor. of bridge 1031.76
- 34 13.2 At Downing Park, 0.25 mi S. of cor. secs. 28, 29, 32 and 33, T. 92 N., R. 10 W., 315 ft N. and 220 ft W. and 6.3 ft lower than crossroads, at the concrete base of a playground slide; a standard tablet flush with ground and stamped "61 CLC 1969 1018" 1017.999

LINE 7C.D. Lien, 1977; Book CV-3390WINTHROP NO. 2 QUAD. - 168

- 2 37 0.0 BM, 2.2 mi NW. along the Chicago, Rock Island & Pacific R.R. from the station at Independence Buchanan County, 1.5 poles NW. of milepost 41, 175 yards NW. of the center of a road crossing, at a 4 by 6 ft stone culvert, in the top of the SE. end, 9 ft NE. of the centerline of the track, and about 2 ft NE. of the centerline of the track, and about 2 ft lower than the track. A standard USC&GS disk stamped "Z 74 1934". 928.578
- 37 0.8 UE Z 74 A, 0.8 mi E. along road from tablet, on top of a spike in centerline of crossroads, Hwy. 150 and county road D-16 937.4
- 39 2.1 UE Z 74 B, 1.3 mi E. and 0.79 mi SW. along road from tablet, 36 ft N. and 24 ft W. and 0.6 ft higher than I-rd. W. and 7 ft N. of a fence corner, a R.R. spike in a fence post 988.25
- 41 3.1 Reference mark, 19 ft N. of road at drain and 39 ft N. and 9 ft W. of tablet, a chiseled square on a round 4 ft culvert, the most westerly one of two 4 ft concrete culverts 963.71
- 42 3.1 Independence, at the junction of State Hwy. 150 and U.S. Hwy. 20, 1 mi N. and 1 mi E. of; T. 89 N., R. 9 W., near the E. sixteenth cor. between secs. 26 and 35, 0.68 mi E. along 14th St. NE. from the crossing of the 14th St. NE. and 8th Ave. NE. in the NE. cor. of Independence, 20 ft S. of road at drain and about 300 ft E. of centerline of road at N. and S. fence lines, cemented in the top of a 4 ft round concrete culvert, a standard tablet stamped "1 CDL 1976" 963.275
- 43 4.1 UE 1 A, 1 mi E. along road from tablet, 15 ft S. and 69 ft E. of centerline of bridge, 0.7 ft higher than centerline of bridge, a chiseled square in the SE. cor. of wingwall of bridge 963.15
- 44 5.3 UE 1 B, 2.14 mi E. along road from tablet, 12 ft N. and 5 ft E. of; and level with centerline of road over drain, and 190 ft E. of a steel tower powerline crossing road, a chiseled square in the NE. cor. of a concrete box culvert 1008.32
- 46 6.5 Reference mark, 33 ft N. and 14 ft W. of centerline of road at a drive N. and 49 ft N. and 383 ft W. of tablet, a punched hole in the W. end of a metal culvert under drive N. 976.38

10
42-09 1-43
OLEWEIN NO. 3 QUADRANGLE
192 - IOWA

LINE 6 (Cont'd)

WINTHROP NO. 2 QUAD. - 168

FEET

- 2 47 6.6 BM, Independence; 1.5 mi N. and 4.25 mi E. of; T. 89 N., R. 8 W., near the quarter cor. between secs. 28 and 29, 16 ft S. and 69 ft E. of; centerline of bridge cemented in the SE. cor. of a concrete bridge over Pine Creek, a standard tablet stamped "2 CDL 1977" 969.741
- 50 7.8 UE 2 A, 1.15 mi E. along road from tablet, 28 ft N. and 24 ft E. of; and 2 ft lower than crossroads, a chiseled square on a concrete culvert 1007.68
- 52 8.9 UE 2 B, 2.25 mi E. along road from tablet, 11.3 ft S. and 9.3 ft E. of; and 2 ft lower than centerline of bridge on top of a 20 penny spike in the SE. wingwall of a wooden bridge 1020.34

WINTHROP NO. 1 QUAD. - 167

- 54 9.8 Reference mark, 36.5 ft N., 32.4 ft W. of centerline of road at N.-S. fence line, 36.5 ft N. and 17 ft W. of centerline of road at field entrance N. and 77.5 ft N. and 49.7 ft W. of tablet, a punched hole in the W. end of a metal culvert under field entrance N. 1034.90
- 55 9.8 BM, Independence, at the junction of U.S. Hwy. 20 and State Hwy. 150, 1.5 mi N. and 7.25 mi E. of; T. 89 N., R. 8 W., near the quarter cor. between secs. 25 and 26, 41 ft S. and 17.3 ft E. of centerline of road at N.-S. fence lines, 0.6 ft N. and 17.3 ft E. of a right-of-way fence corner set on top of a 0.5-in. copper coated steel rod which is set inside of a 6-in. clay tile, a standard tablet stamped "3 CDL 1977" 1036.804
- 56 10.5 UE 3 A, 0.5 mi N. and 0.25 mi E. along road from tablet, 42 ft S. and 42 ft E. of centerline of road at T-rd. S., a chiseled square on NW. cor. of a concrete foundation for a under ground cable box 1079.81
- 57 11.0 UE, quarter mi W. of cor. secs. 19, 24, 25 and 30; 30 ft N. and 15 ft W. of T-rd. S. side of powerline pole; head of a R.R. spike 1014.720

OLEWEIN NO. 4 QUAD. - 191

ISOLATED BENCH MARKS

- T. 91 N., R. 8 W., NE¼ sec. 21, at crossroads; iron post stamped "1143 DBQ" 1144.385
- Oelwein, N. wall of post office, in coping stone; aluminum tablet stamped "1044 DBQ" (Disturbed 9-77, CDL) 1045.347
- Hazelton, at R.R. station; iron post stamped "995 DBQ" (USC&GS elev.) 996.688
- T. 90 N., R. 8 W., NE¼ sec. 21, at side of wagon road iron post stamped "1063 DBQ" 1063.969