

OFFICE COPY HOLD

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

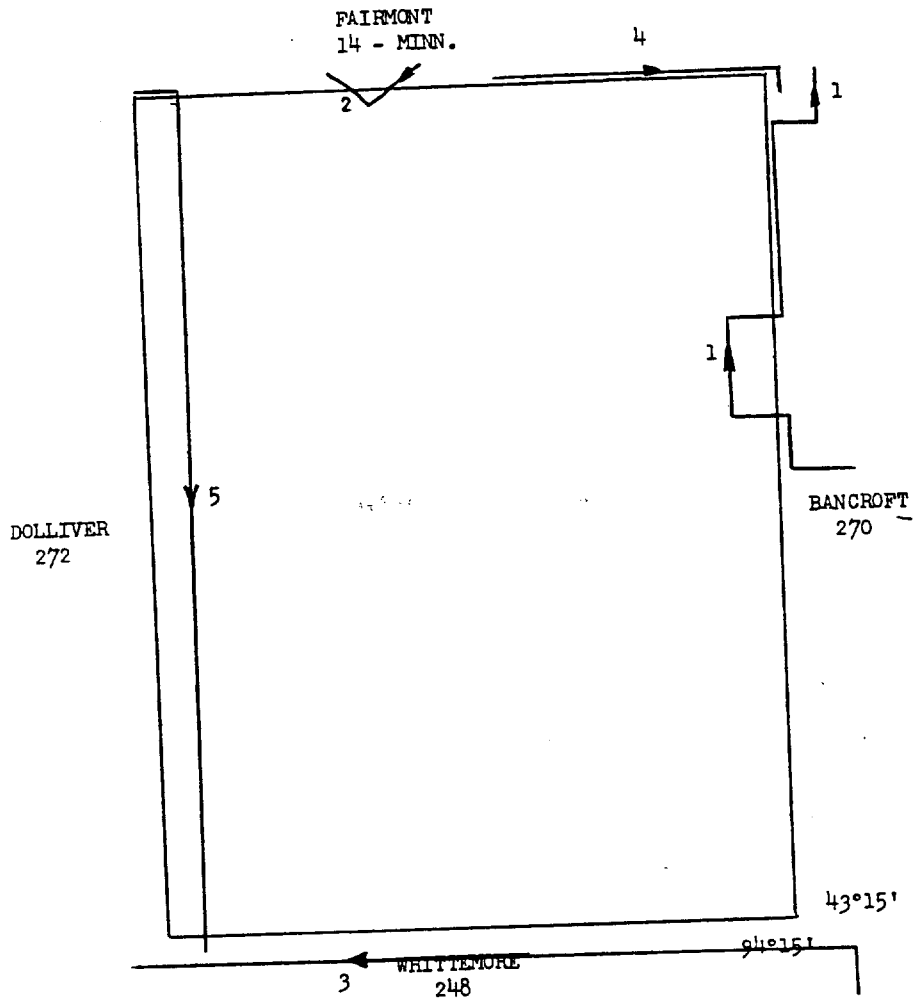
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

43-094-24
ARMSTRONG QUADRANGLE
271 - IOWA
N4315-W9415/15
DIAGRAM NK 15-1
FAIRMONT

Emmet and Kossuth Counties

Edition of: 2-17-77

PR: ADP/LB/cb



271-A

LINE 1

FEET

BANCROFT QUAD. - 270

W.E. Knouse, 1972; Book CV-2870

- | | | | | |
|----|-----|-----|--|----------|
| 2 | 2 | 0.0 | At Gerled, Kossuth County, 100 ft SE. of the Chicago and North Western RR. station, at the overhead crossing of the Chicago, Rock Island and Pacific RR., and in the toe of the wingwall at the N. end of the E. abutment, a standard USC&GS disk, stamped "1156.028 E 1 1930" | 1156.028 |
| 2 | 0.2 | | UE E 1 A, T. 99 N., R. 28 W., just E. of cor. secs. 17, 18, 19 and 20; centerline of State Hwy. 9 and U.S. Hwy. 169, a RR. crossing; copper nail and washer | 1147.7 |
| 3 | 0.3 | | UE E 1 B, T. 99 N., R. 28 W., near cor. secs. 17, 18, 19 and 20; centerline of State Hwy. 9 at T-rd. N.; copper nail and washer | 1147.2 |
| 4 | 0.7 | | UE E 1 C, T. 99 N., R. 28 W., near quarter cor. secs. 18 and 19; centerline of State Hwy. 9 and U.S. Hwy. 169 at RR. crossing; copper nail and washer | 1156.8 |
| 5 | 1.2 | | The azimuth for Triangulation Station PARK 1971, is a standard disk stamped "PARK 1971" and is set in the top of a 12-in. cylindrical concrete monument which projects 2-in. above ground. It is 86 ft N. of the center of Hwy. 9, 14 ft E. of the center of a dirt road, 11.8 ft S. of the S. rail of a single railroad track, 2.0 ft W. of a 4 by 8 in. RR. crossing signpost, and about level with the hwy. | 1156.330 |
| 6 | 1.2 | | UE PARK A, T. 99 N., Rs. 28 and 29 W., near cor. secs. 13, 18, 19 and 24; centerline of U.S. Hwy. 169 and State Hwy. 49, at T-rd. N., copper nail and washer | 1154.7 |
| 7 | 1.7 | | UE PARK B, T. 99 N., R. 29 W., near quarter cor. secs. 13 and 24; at center of junction of U.S. Hwy. 169 and State Hwy. 9 and county rd. P 40, in line with lane dividing island; chiseled square | 1170.1 |
| 9 | 1.8 | | Reference mark 1, a standard disk stamped "PARK NO. 1 1971" is set in the top of a 12-in. cylindrical concrete monument which is flush with the ground. It is 117 ft W. of the center of Hwy. 169, 9.5 ft E.-NE. of the fence, 2 ft W.-SW. of the cutbank edge, and about 3 ft higher than the hwy. | 1168.40 |
| 10 | 1.8 | | Triangulation Station PARK 1971, is located 6.0 mi W. of Lakota, 6.5 mi N. of Bancroft, at a road side park in the SW. angle of the junction of U.S. Hwy. 169 and State Hwy. 9, in Sec. 24, T. 99 N., R. 30 W., | 1167.573 |
| 11 | 1.8 | | Reference mark 2, is a standard disk stamped PARK NO 2 1971, is set in the top of a 12-in. cylindrical concrete monument which is flush with the ground. It is 51 ft S.-SE. of a field entrance, 11 ft W.-SW. of the cutbank edge, 1.0 ft E.-NE. of the fence, and about 3 ft higher than the hwy. | 1166.739 |
| 12 | 2.4 | | UE PARK C, T. 99 N., R. 29 W., near cor. secs. 13, 14, 23 and 24; centerline of T-rd. N., copper nail and washer | 1158.5 |
| 13 | 2.9 | | UE PARK D, T. 99 N., R. 29 W., near quarter cor. secs. 14 and 23; centerline of rd. at fence S.; copper nail and washer | 1161.8 |
| 14 | 3.4 | | Reference mark 5 WEK, T. 99 N., R. 29 W., near cor. secs. 14, 15, 22 and 23, cross-roads, top rod set flush with road surface | 1171.22 |
| 15 | 3.4 | | EM 5 WEK, Ledyard, 2.5 mi S. and 4.5 mi W. from along State Hwy. 9, 3.0 mi E. from Swea City; T. 99 N., R. 29 W., near cor. secs. 14, 15, 20 and 23, 51 ft N. and 4.5 ft W. of RR. crossing, 140 ft NW. of crossroads; 9 ft W. and 1 ft S. of fence corner post; a standard cap on rod supported EM1 encased in a 6-in. by 1 ft piece at well casing; stamped "5 WEK 1972" | 1168.857 |

BANCROFT QUAD. - 270

FEET

LINE 1 (Cont'd)

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|----|-----|-----|--|---------|
| 2 | 16 | 3.9 | UE 5 A, T. 99 N., R. 29 W. near quarter cor. secs. 14 and 15, centerline of gravel rd. at E.-W. fence; top of RR. spike | 1163.27 |
| 17 | 4.3 | | UE 5 B, T. 99 N., R. 29 W.; about 600 ft S. of cor. secs. 10, 11, 14 and 15; at center of wood floor of bridge and 9.6 ft above water level (07-10-72), copper nail and washer | 1155.0 |

ARMSTRONG QUAD. - 271

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|----|-----|--|--|----------|
| 18 | 4.4 | | UE 5 C, T. 99 N., R. 29 W., near cor. secs. 10, 11, 14 and 15; centerline of gravel T-rd. S.; top of RR. spike | 1161.6 |
| 19 | 4.9 | | UE 5 D, T. 99 N., R. 29 W., near quarter cor. secs. 10 and 15, centerline of rd. at fence N.-S. (rd. gravel); top of RR. spike | 1162.8 |
| 20 | 5.4 | | UE 5 E, T. 99 N., R. 29 W., near cor. secs. 9, 10, 15 and 16; centerline of crossroads; (gravel); top of RR. spike | 1168.1 |
| 21 | 5.6 | | UE 5 F, T. 99 N., R. 29 W., about 0.25 mi N. cor. secs. 9, 10, 15 and 16; center of wood floor of bridge and 10.5 ft above; (07-10-72); copper nail and washer | 1162.6 |
| 22 | 6.3 | | UE 5 G, T. 99 N., R. 29 W., about 600 ft S. cor., secs. 3, 4, 9 and 10; center of wood floor of bridge and 10.5 ft above water level; copper nail and washer | 1160.2 |
| 24 | 6.4 | | RM 6 WEK, T. 99 N., R. 29 W., near cor. secs. 3, 4, 9 and 10, 33 ft N. and 30 ft E. of crossroads, in W. side of power pole and near ground level, RR. spike | 1157.32 |
| 25 | 6.5 | | BM 6 WEK, Ledyard, 5.5 mi W. and 0.5 mi S.; along dirt county road, 6.5 mi S. and 9.0 mi W. of Elmore Minn., T. 99 N., R. 29 W., about 500 ft N. of cor. secs. 3, 4, 9 and 10; 33 ft N. and 22 ft E. of centerline of rd. at fence E.; 1 ft W. of E.-W. fence, on top rod type BM and encased in a 6-in. by 1 ft piece of well casing; a standard cap stamped "6 WEK 1972" | 1163.234 |
| 26 | 7.3 | | UE 6 A, T. 99 N., R. 29 W.; between NW $\frac{1}{4}$ of sec. 3, and NE $\frac{1}{4}$ of sec. 4, at center of wood bridge floor and 8.5 ft above water level (07-10-72); copper nail and washer | 1152.5 |
| 28 | 7.6 | | UE 6 B, T. 99 and 100 N., R. 29 W., about 800 ft E. of cor. secs. 33, 34, 3 and 4, at center floor (wood) of bridge and 7.5 ft above water level (07-16-72); copper nail and washer | 1151.1 |

BRANCROFT QUAD. - 270

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|----|-----|--|---|----------|
| 29 | 8.5 | | UE 6 C, T. 99 and 100 N., R. 29 W., near cor. secs. 2, 3, 34 and 35, centerline of gravel T-rd. N.; top of RR. spike | 1151.1 |
| 30 | 9.0 | | UE 6 D, T. 100 N., R. 29 W., near quarter cor. sec. 34 and 35; centerline of of gravel rd. at E.-W. fence; top of RR. spike | 1156.8 |
| 31 | 9.4 | | RM 7 WEK, T. 100 N., R. 29 W., about 250 ft S. of cor. secs. 26, 27, 34 and 35; centerline wood floor bridge and 10.7 ft above water level; copper nail and washer | 1147.80 |
| 32 | 9.4 | | BM 7 WEK, Ledyard, 1.5 mi N. and 4.5 mi W. from along dirt county road; 4.5 mi S. and 8.0 mi W. from Elmore, Minn., T. 100 N., R. 29 W., near cor. secs. 26, 27, 34 and 35; 41 ft S. and 34 ft E. of crossroads; 4 ft SW. of power pole, on top of rod type BM and encased in 6-in. by 1 ft piece of well casing; a standard cap stamped "7 WEK 1972" | 1149.246 |

BRANCROFT QUAD. - 270

FEET

LINE 1 (Cont'd)

2	34	10.0	UE 7 A, T. 100 N., R. 29 W. near quarter cor. secs. 26 and 27; and gravel rd. at fence W.; top of RR. spike	1149.3
35	10.1		UE 7 B, T. 100 N., R. 29 W., about 0.2 mi N. of quarter cor. secs. 26 and 27, at centerline of wood floor of bridge and 12.1 ft above water level; copper nail and washer	1146.0
36	10.4		UE 7 C, T. 100 N., R. 29 W. near cor. secs. 22, 23 26 and 27, centerline of gravel crossroads; top of RR. spike	1156.7
37	10.9		UE 7 D, T. 100 N., R. 29 W. near quarter cor. secs. 22 and 23; centerline of rd (gravel) at fence W.; top of RR. spike	1153.7
38	11.4		UE 7 E, T. 100 N., R. 29 W., near cor. secs. 22, 23, 14 and 15, centerline of gravel rd. at fence E., top of RR. spike	1145.0
39	11.7		UE 7 F, T. 100 N., R. 29 W., between S $\frac{1}{4}$ secs. 14 and 15, centerline of wood bridge floor and 9.2 ft above water level; copper nail and washer	1133.8
40	12.4		UE 7 G, T. 100 N., R. 29 W., near cor. secs. 10, 11, 14 and 15; centerline of T-rd. S., top of rod flush with asphalt rd. surface	1148.9
41	12.6		RM 8 WEK, T. 100 N., R. 29 W., about 800 ft W. of cor. secs. 10, 11, 14 and 15, centerline of concrete bridge floor E., 11.6 ft above water level; chiseled cross	1135.75
42	12.6		BM 8 WEK, Ledyard; 4.5 mi N. and 4.5 mi W. from along County Rd. A 16, 0.5 mi S. and 8.0 mi W. from Elmore, Minn.; T. 100 N., R. 29 W., about 750 ft W. of cor. secs. 10, 11, 14 and 15, on E. end of N. concrete wheel guard of bridge; a standard cap stamped "8 WEK 1972"	1136.335
44	13.2		UE 8 A, T. 100 N., R. 29 W., near quarter cor. secs. 11 and 14, centerline of rd. at fence S., copper nail and washer	1140.1
45	13.7		UE 8 B, T. 100 N., R. 29 W., near cor. secs. 11, 12, 13 and 14, centerline of crossroads set flush with asphalt surface	1138.2
46	14.5		UE 8 C, T. 100 and 101 N., Rs. 28 and 29 W. near N. cor. secs. 11 and 12; centerline of gravel T-rd. S.; top of RR. spike	1136.6
47	14.6		UE 8 D, T. 100 and 101 N., Rs. 28 and 29 W., near S. cor. secs. 31 and 32; centerline of gravel T-rd. N., top of RR. spike	1135.7
48	14.7		BM 9 WEK, Elmore, Minn., 7.0 mi W. and 0.5 mi S. from Ledyard, 5.5 mi N. and 3.5 mi W. from; T. 100 and 101 N., Rs. 28 W., near cor. secs. 31 and 32, 34 ft N. and 33 ft E. of T-rd. N., 2 ft NE. of fence cor. post; a rod type BM encased in a 6 in. by 1 ft piece of well casing; a standard cap stamped "9 WEK 1972"	1134.343
49	14.7		RM 9 WEK, T. 101 N., R. 28 W., about 350 ft N. of S. cor. secs. 31 and 32; 33 ft E. of centerline of N.-S. rd., in W. side of power pole and near ground level, a RR. spike	1134.52
50	15.1		UE 9 A, T. 101 N., R. 28 W., near quarter cor. secs. 31 and 32; centerline of gravel road at fence W.; top of RR. spike	1133.0
51	15.7		UE 35 WL B; 1.9 mi S. of tablet, 36 ft E., 33 ft N. and 2.6 ft lower than crossroads; a spike in the SW. side of a power pole	1134.030

BLUE EARTH, MINN. 13

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ARMSTRONG QUADRANGLE
271 - IOWA

FEET

LINE 2

FAIRMONT QUAD. - 14 MINN.

W.D. Lutz, 1965; Book CV-1918

- 16.6 East Chain, 4.0 mi S. of, on Minnesota-Iowa State Line Rd.; near sixteenth cor. sec. 31, T. 100 and 101 N., R. 30 W.; 0.4 mi W. of T-rd. N.; 335 ft W. of rd. at field rd. S., 15 ft N. and 1.9 ft lower than rd.; a standard tablet set in the N. end of a 3.5 ft concrete drain tile stamped "13 WL 1965" 1180.830
- 16.6 Reference mark, 30 ft S. of tablet; a chiseled square in S. end of a 3.5 ft concrete drain tile 1180.44
- 17.1 UE 13 WL A; 0.55 mi W. of tablet; 21 ft S., 3 ft E. and 1.0 ft lower than rd. at private drive N.; a chiseled square on the E. end of a 14-in. concrete culvert at field end S. 1200.02

ARMSTRONG QUAD. - 271 IOWA

- 17.8 UE 13 WL B; about 0.8 mi W. and 0.6 mi S. of tablet, at rd. at curve; 36 ft N. and 6 ft W. of a fence corner; about 2.5 ft lower than rd. at curve; a spike in the W. side of a power pole 1187.11
- 19.6 UE 13 WL F; about 2.25 mi W. and 0.75 mi S. of tablet; 12 ft E. and 1.1 ft lower than rd. at chiseled square on the E. end of 1.5 ft concrete drain tile 1178.31
- 20.0 East Chain, 4.1 mi S. and about 2.2 mi W. of; 0.1 mi S. of Minnesota-Iowa State line; near sixteenth cor. between secs. 8 and 9; T. 100 N., R. 30 W.; about 0.1 mi S. of T-rd. S.; 9 ft E. and 2.8 ft higher than center of rd. at bridge; a standard tablet set in the E. concrete railing of a concrete bridge stamped "14 WL 1965" 1170.734
- 20.0 Reference mark, 27 ft N. and 18 ft W. of tablet; a chiseled square in the W. concrete railing of concrete bridge 1170.70

FAIRMONT QUAD. - 14 MINN.

- 20.8 UE 14 WL A; about 0.7 mi W. and 0.1 mi N. of tablet; 36 ft S. and about the same elevation as rd.; a spike in the N. side of a power pole 1236.71
- 21.2 UE 14 WL B; 1.1 mi W. and 0.1 mi N. of tablet; 42 ft E., 30 ft S. and 3.5 ft higher than T-rd. S.; a spike in the N. side of a power pole 1208.87
- 22.3 Fairmont, 11.0 mi S. of; 4.0 mi S. and 4.2 mi W. of East Chain; approx. cor. secs. 32 and 33; T. 101 N., R. 30 W.; approx. quarter cor. sec. 7, T. 100 N., R. 30 W., 150 ft E., 48 ft N., 0.8 ft higher than T-rd. E., 14.7 ft N. of fence corner, 1 ft W. of N.-S. fence, a standard. Minn. Dept. of Hwy. tablet set in concrete stamped "4603 A 1219.215" (7-67 WG Wood) 1219.337

LINE 3

ALGONA QUAD. - 247

C.D. Lien, 1976; Book CV-3330

- 1 2 0.0 BM, 4.5 mi S. along the Chicago and north western RR. from Bancroft, Kossuth County, 700 ft S. of bridge 285, 50 ft N. of 48 ft W. of road at R.R. crossing, 20 ft N. of a fence corner set on top of a concrete post set flush with ground a standard N.G.S. disk stamped 1152.134 K 1 1930, it is in the SE. cor. of sec. 12, T. 97 N., R. 29 W. 1152.134
- 2 0.9 BM, Burt, 2.65 mi N. of along U.S. Hwy. 169, T. 97 N., R. 29 W. near the N. sixteenth cor. between secs. 11 and 12, it is 59 ft E. of centerline of hwy. 169, and 8 ft N. of the S. one of two telephone poles, and 1.4 ft N. of a metal witness post, set on top of a concrete post a standard disk stamped "BURT AZIMUTH MARK 1971" 1169.004
- 3 1.2 Reference mark 2, it is 62 ft W. of hwy. 169, 91.5 ft SE. of a metal witness post, 5 ft N. of a fence cor. and 85.5 ft SE. of tri. sta. set on top of a concrete post set flush with ground, a standard disk stamped "R.R. # 2 1971" 1165.410

ALGONA QUAD. - 247

FEET

LINE 3 (Cont'd)

LINE 3 (Cont'd)

1	4	1.2	Burt, 3 mi N. of, T. 97 N., R. 29 W. sec. cors. 1, 2, 11 and 12, 65 ft S. and 102 ft W. of crossroads, 48.5 ft SW. of a power pole and 32 ft NE. of a fence and a metal witness post set on top of a concrete post set flush with ground, a standard USC&GS disk stamped "BURT 1971"	1165.555
5	1.3	Reference mark 1, 51 ft S. of county road B 14, 38 ft NW. of a witness post, 4 ft E.-SE. of a fence cor. and 56.1 ft W. of triangulation station BURT, set on top of a concrete post set flush with ground, a standard disk stamped "R.M. #1 1971"	1170.127	
6	2.2	UE Burt A, 1 mi W. along road from tablet, a copper nail and washer centerline of road at fence line S. <u>WHITTEMORE QUAD. - 248</u>	1182.7	
8	3.3	UE BURT B, 2 mi W. along road from tablet a copper nail and washer in centerline of crossroads	1167.8	
10	3.8	Burt, 3 mi N. and 2.57 mi W. of; and Fenton, 1.5 mi N. and 7.43 mi E. of; T. 97 N., R. 29 W. near the quarter cor. between secs. 4 and 9, 415 ft W. of road at N.-S. fence lines, 36 ft S., 27 ft E. of road at drain, 6 ft S. and 27 ft E. of the S. end of a 36-in. concrete culvert cemented in the NE. cor. of an old concrete foundation, a standard tablet stamped "1 CDL 1976"	1162.962	
11	3.9	Reference mark, 27 ft W. and 7.5 ft N. of tablet and 28.5 ft S. of centerline of road at drain, a chiseled square on the S. end of a 36-in. concrete culvert	1165.14	
12	4.3	UE 1 A, 0.4 mi W. along road, from tablet, a copper nail and washer centerline of crossroads	1170.5	
15	5.3	UE 1 B, 1.4 mi W. along road from tablet T. 97 N., R. 29 W. at sec. cors. 5, 6, 7 and 8, 39 ft S. and 18 ft W. of; and 4.7 ft lower than crossroads a chiseled square on a concrete culvert	1183.68	
17	6.2	UE 1 C, 2.3 mi W. along road from tablet, T. 37 N., R. 29 and 30 W., sec. cors. 1, 6, 7 and 12, 25 ft S. and 102 ft E. of; and 6 ft lower than crossroads, a chiseled square on a concrete culvert	1194.42	
21	7.2	EM, Fenton, 1.5 mi N. and 4 mi E. of T. 97 N., R. 30 W., near sec. cors. 1, 2, 11 and 12, 12 ft N. and 18 ft W. of and 0.8 ft higher than centerline of bridge and 185 ft E. of crossroads, water -16 cemented in the NW. corner of bridge, a standard tablet stamped "2 CDL 1976"	1197.623	
22	7.2	Reference mark, 61 ft S. and 162 ft W. of tablet and 49 ft S. and 23 ft E. of crossroads, a chiseled square on a concrete culvert	1196.27	
25	8.2	UE 2 A, 1 mi W. along road from tablet, a copper nail and washer centerline of crossroads	1223.33	
28	9.2	UE 2 B, 2 mi W. along road from tablet, T. 97 N., R. 30 W., near sec. cors. 3, 4, 9 and 10, 30 ft N. and 31 ft W. of; and 4.9 ft lower than crossroads, a chiseled square on a concrete culvert	1224.28	
30	10.2	EM, Fenton, 1.5 mi N., 1 mi E. of; T. 97 N., R. 30 W., near sec. cors. 4, 5, 8 and 9, 21 ft N., 14 ft W. of; and 0.5 ft lower than centerline of bridge, 45 ft S., 14 ft W. of a T-rd. E. and 63 ft N., 14 ft W. of a T-rd. W. water -12.3 cemented in the NW. cor. of bridge, a standard tablet stamped "3 CDL 1976"	1215.127	
31	10.2	Reference mark, 1.5 ft N., 12 ft W. of tablet and 43.5 ft S., 26 ft W. of a T-rd. E. a punched hole in a metal culvert	1209.68	

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ARMSTRONG QUADRANGLE
271 - IOWA

WHITTEMORE QUAD. - 248

FEET

LINE 3 (Cont'd)

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| 1 34 11.2 | UE 3 A, 1 mi W. along road from tablet, a copper nail and washer in centerline of crossroads | 1231.60 |
| 35 11.3 | Fenton, 1.5 mi N. of; 0.1 mi W. of; T. 97 N., R. 30 W. near sec. cors. 5, 6, 7 and 8, 555 ft W. of crossroads, 90 ft W., 30 ft S. of centerline of road at fence line S. and 2.9 ft W. of a metal witness post, set in the top of a concrete post, a standard disk stamped "FENTON AZIMUTH MARK 1971" | 1237.424 |
| 37 12.2 | Fenton, 1.5 mi N., 0.9 mi W. of; T. 97 N., R. 30 W., near sec. cors. 1, 6, 7 and 12, 385 ft E. of crossroads, 182 ft E., 25 ft N. of centerline of road at a drive N., 8 ft SE. of a T-fence, 5.4 ft SE. of a metal witness post and 4.2 ft S. of a fence line, set on the top of a concrete post, a standard USC&GS disk stamped "TRI STA FENTON 1971" | 1258.129 |
| 38 12.2 | Reference mark 1, it is 71.3 ft E. of tablet, 67.5 ft E. of a metal witness post, 28 ft N. of centerline of road and 0.9 ft S. of a fence line set in the top of a concrete post, a standard USC&GS disk stamped "FENTON R.M. #1 1971" | 1257.771 |
| 39 12.2 | Reference mark 2, 28 ft N., 115 ft E. of centerline of road at a drive N. and 67.5 ft W. of station mark, set in the top of a concrete post, a standard USC&GS disk stamped "FENTON R.M. #2 1971" | 1259.195 |
| 44 13.3 | UE Fenton A, 1 mi W. along road from tablet, T. 97 N., R. 31 W., sec. cors. 1, 2, 11 and 12, 46 ft N., 15 ft W. of; and 1.8 ft lower than crossroads, a chiseled square on a concrete culvert | 1254.87 |
| 47 14.3 | UE Fenton B, 2 mi W. along road from tablet, T. 97 N., R. 31 W., sec. cors. 2, 3, 10 and 11, 33 ft S., 33 ft W. of; and 0.5 ft higher than crossroads, a chiseled square on a large rock | 1274.77 |

EMMETSBURG QUAD. - 249

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| 51 15.3 | UE Fenton C, 3 mi W. along road from tablet, R. 31 W., T. 97 N., sec. cors. 3, 4, 9 and 10, 50 ft N., 19 ft W. of crossroads, a chiseled square on a concrete culvert | 1289.17 |
| 53 16.1 | Fenton, 1.5 mi N., 4.8 mi W. of; T. 97 N., R. 31 W. near the W. sixteenth cor. between secs. 4 and 9, 11 ft S., 13 ft E. of; 0.2 ft higher than centerline of bridge and 11 ft S., 76 ft E. of centerline of road at field entrance N. cemented in the SE. cor. of bridge, a standard tablet stamped "4 CDL 1976" | 1270.001 |

LINE 4

FAIRMONT QUAD. - 14 MINN.

C.D. Lien, 1976; Book CV-3330

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| 2 40 0.0 | Reference mark, 30 ft S. of tablet; a chiseled square in S. end of a 3.5 ft concrete drain tile | 1180.440 |
| 40 0.0 | BM, East Chain, 4 mi S. of, on Minnesota-Iowa State Line Road; near sixteenth cor. sec. 31, T. 100 and 101 N., R. 30 W.; 0.4 mi W. of T-rd. N.; 335 ft W. of road at field road S.; 15 ft N. and 1.9 ft lower than road; a standard tablet set in the N. end of a 3.5 ft concrete drain tile stamped "13 WL 1965" | 1180.377 |
| 43 1.1 | UE D A, 1.1 mi E. along road from tablet, T. 100 and 101 N., R. 30 W., sec. cors. 11, 12 and the W. sixteenth cor. of sec. 32, 30 ft S., 45 ft E. of and 3.2 ft lower than T-rd. S. and 15 ft N., 42 ft E. of road at a field entrance E., a punched hole in a metal culvert | 1181.45 |

FAIRMONT QUAD. - 14 MINN.

FEET

LINE 4 (Cont'd)

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|----|-----|-----|--|----------|
| 2 | 45 | 1.9 | UE D B, 1.95 mi E. along road from tablet, T. 100 and 101 N., R. 30 W., sec. cors. 32 and 33 and the E. sixteenth cor. of sec. 12, 36 ft N., 29 ft W. of; and 3.3 ft lower than T-rd. N. and 3 ft N., 0.8 ft E. of a fence corner, a chiseled square on a rock | 1192.12 |
| 48 | 3.0 | | Reference mark, 30 ft S., 13 ft E. of road at field entrance S. and 21 ft N., 8 ft W. of tablet, a punched hole in a metal culvert | 1162.32 |
| 49 | 3.0 | | Swea City, at the junction of Hwy. 9 and county road P 30, 8 mi N. of; T. 100 and 101 N., R. 29 W., 33 and 34 and the E. sixteenth cor. of secs. 7, 51 ft S., 21 ft E. of road at field entrance S., 51 ft S., 55 ft W. of crossroads, 6 ft NE. of a telephone pole and 1.8 ft W. of a metal witness post, set on top of a 0.5-in. copper coated steel rod enclosed by a 6-in. tile set flush with ground; a standard tablet stamped "10 CDL 1976" | 1162.144 |
| 53 | 4.1 | | UE 10 A, 1.1 mi E. along road from tablet, T. 100 and 101 N., R. 29 W., sec. cor. 8 and 9, and W. sixteenth cor. of sec. 35, 30 ft S., 55 ft E. of; and 1.8 ft lower than T-rd. S. a chiseled square on a rock | 1158.37 |
| 56 | 5.1 | | UE 10 B, 2.1 mi E. along road from tablet, T. 100 and 101 N., R. 29 W., sec. cor. 9 and 10, W. sixteenth cor. of sec. 36, 31 ft S. and 33 ft W. of; and 0.8 ft lower than T-rd. S., 3.5 ft S., 2.5 ft E. of a fence corner; a chiseled square on a rock | 1154.53 |
| 60 | 6.0 | | BM, Blue Earth, 9.5 mi S. and 7.25 mi W. of; also SWEA City at the junction of Hwy. 9 and county road P 30, 8 mi N., and 3 mi E. of, T. 101 N., R. 28 and 29 W., near the S. cor. of sec. 31 and 36, 33 ft N., 98 ft E. of T-rd. N. and 63 ft E. of a fence corner and 1 ft S. of a right-of-way fence set in the top of a concrete post projecting about 5-in., a standard tablet stamped "ET 10 JS 1965" | 1142.630 |

BANCROFT QUAD. - 270 IA.

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| 62 | 7.0 | | BM 9 WEK, Elmore, Minn., 7 mi W. and 0.5 mi S. from along county dirt road; Ledyard, 5.5 mi N. and 3.5 mi W. from; T. 100 and 101 N., Rs. 28 W., near cor. secs. 31 and 32, 34 ft N. and 33 ft E. of T-rd. N., 2 ft NE. of fence corner post; a rod type BM encased in a 6 in. by 1 ft piece of well casing; a standard cap stamped "9 WEK 1972" | 1134.343 |
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LINE 5

FAIRMONT QUAD. - 14 MINN.

C.D. Lien, 1976; Book CV-3330

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| 3 | 2 | 0.0 | Wilbert, 3 mi S. and 2.25 mi E. of; on the Minnesota-Iowa State line; approx. cor. secs. 31 and 36, N. quarter cor. sec. 10, Ts. 101 and 100 N., R. 30 and 31 W., 39 ft E., 25 ft S. and 2.9 ft lower than T-rd. N.; 3 ft E. of a power line brace pole; 3 ft N. of a fence; a standard tablet set in top of a concrete post stamped "15 WL 1965" | 1238.970 |
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ARMSTRONG QUAD. - 271 IA.

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| 2 | 0.5 | | UE LA; 0.5 mi E. along road from tablet, T. 100 and 101 N., R. 31 W., sec. cors. 10 and 11; quarter cor. of sec. 31, 39 ft N., 39 ft N., 54 ft W. of road at T-rd. S. and 39 ft N., 15 ft E. of centerline of road at a field entrance N.; a chiseled square on a rock | 1241.98 |
| 5 | 1.3 | | UE L B, 0.5 mi and 0.8 mi S. along road from tablet, T. 100 N., R. 31 W., sec. cors. 10, 11, 14 and 15, 27 ft N., 25 ft W. of; and 0.8 ft lower than T-rd. W. a punched hole in a metal culvert | 1238.31 |

ARMSTRONG QUAD. - 271 IA.

FEET

LINE 5 (Cont'd)

LINE 5 (Cont'd)

3	6	1.9	Reference mark, 4.8 ft N., 13 ft W. centerline of road at drain, 16.8 ft N. and 33 ft W. of tablet, a chiseled square on the NW. cor. of a box culvert	1233.99
7	1.9	BM, Armstrong, at the junction of Hwys. 9 and 15 S., 6 mi N. of; T. 100 N., R. 31 W., near the quarter cor. between secs. 14 and 15, 12 ft S., 20 ft E. of; and 3.5 ft lower than centerline of road over drain, 6.8 ft N., 12 ft W. of a T-fence cemented in the E. end of a concrete foundation over a round concrete culvert, a standard tablet stamped "11 CDL 1976"	1230.864	
8	2.3	UE 11 A, 0.5 mi S. along road from tablet, a copper nail and washer in centerline of crossroads	1247.8	
10	3.3	UE 11 B, 1.5 mi S. along road from tablet, a copper nail and washer centerline of road, at E.-W. fence lines	1254.9	
12	4.3	Reference mark, on top of a 0.5-in. iron rod in centerline of crossroads, a state hwy. sec. cor. rod	1246.67	
13	4.4	BM, Armstrong, at the junction of hways. 9 and 15 S., 3.5 mi N. of; T. 100 N., R. 31 W., sec. cors. 26, 27, 34 and 35, 144 ft S., 138 ft E. of crossroads, 7 ft S., 8 ft E. of the SW. cor. of an old school house and 4 ft S., 3.7 ft W. of entrance to school house, cemented in the SW. cor. of a concrete step, a standard tablet stamped "12 CDL 1976"	1247.060	
15	5.4	UE 12 A, 1 mi S. along road from tablet, a R.R. spike in centerline of crossroads	1241.6	
18	6.5	UE 12 B, 2.1 mi S. along road from tablet, T. 99 N., R. 31 W., near sec. cors. 2, 3, 10 and 11, 13 ft N., 34 ft E. of; and 5.3 ft lower than centerline of road at T-rd. E. a chiseled square on a concrete culvert	1244.12	
21	7.7	Reference mark, 20 ft W. of tablet, a chiseled square in the SE. cor. of a concrete foundation for the SW. leg of the Armstrong Municipal Water Tower	1257.82	
22	7.8	BM, Armstrong at; T. 99 N., R. 31 W., near the N. sixteenth cor. between secs. 14 and 15, cemented in the SE. cor. of a concrete foundation for SE. leg of the Armstrong Municipal Water Tower, a standard tablet stamped "13 CDL 1976" (BM 1.4 ft higher than street opposite)	1257.812	
24	8.5	UE 13 A, about 0.6 mi S. of tablet and 0.23 mi S. of, the junction of State Hwys. 9 and 15, S., 45 ft N., 9.7 ft W. of; and 0.5 ft higher than centerline of bridge, a chiseled square in the NW. cor. of a concrete bridge over the E. fork of the Des Moines River	1211.63	
27	9.3	UE 13 B, 1.35 mi S. of tablet, T. 99 N., R. 31 W., near the quarter cor. between secs. 22 and 23, 19 ft N., 39 ft E. of, and 2.3 ft lower than centerline of road at T-rd. W. and 10 ft N., 39 ft E. of centerline of road at field entrance E., a chiseled square in a concrete culvert	1238.68	
30	10.6	BM, Armstrong at the junction of State Hwys. 9 and 15 S., 2.25 mi S. of; T. 99 N., R. 31 W. near the S. sixteenth cor. between secs. 26 and 27, 39.7 ft N., 63.8 ft E. of; and 5.9 ft lower than centerline of road at T-rd. E., 12.7 ft N., 2 ft W. of a fence corner and 1.3 ft W. of a telephone pole and witness sign, set on top of a 0.5-in. copper coated steel rod enclosed by a 6-in. tile, a standard tablet stamped "14 CDL 1976"	1263.331	

ARMSTRONG QUAD. - 271 IA.

FEET

LINE 5 (Cont'd)

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| 3 | 31 | 10.6 | Reference mark, 72 ft S., of tablet, 33 ft S., 63.8 ft E. of T-rd. E. and 1.5 ft NW. of a fence corner a chiseled cross in the top of a rail used for a hwy. right-of-way marker | 1264.07 |
| 32 | 11.3 | UE 14 A, 0.75 mi | S. along road from tablet, on top of state hwy. spike 4 ft E. of centerline of crossroads | 1258.8 |
| 35 | 12.3 | UE 14 B, 1.75 mi | S. along road from tablet T. 98 N., R. 31 W. near the quarter cor. between secs. 2 and 3, 30 ft S., 57 ft E. of; and 2.2 ft lower than centerline of road at fence E. and 21 ft S., 57 ft E. of road at field entrance E. on top of a 0.5-in. rod in the top of a concrete post right-of-way marker | 1260.05 |
| 36 | 12.8 | UE 14 C, 2.25 mi | S. along road from tablet on top of a state hwy. spike 5 ft E. of crossroads | 1261.1 |
| 39 | 13.8 | Reference mark, 11.6 ft N., 18 ft W. of tablet and 22 ft S., 36 ft E. of crossroads, a chiseled square on top of a concrete culvert | | 1248.01 |
| 40 | 13.9 | Armstrong, at the junction of State Hwy. 9 and 15 S., 5.5 mi S. of; and Ringsted; junction of county road "A 34", and R.R. crossing, 1 mi N. and 1.4 mi E. of; T. 98 N., R. 31 W., sec. cors. 10, 11, 14 and 15, 33.6 ft S., 54 ft E. of; and 3.4 ft lower than crossroads, 2 ft S., 1.8 ft W. of a fence corner and 1.6 ft S. of a telephone pole and a witness sign, set on top of a 0.5-in. copper coated steel rod enclosed by a 6-in. tile set flush with ground, a standard tablet stamped "15 CDL 1976" | | 1247.418 |
| 43 | 14.8 | UE 15 A, 0.9 mi | S. along road from tablet, T. 98 N., R. 31 W., near sec. cors. 14, 15, 22 and 23, 0.1 mi N. of the junctions of State Hwy. 15 and 43, 30 ft S., 17 ft E. of; and same elev. as centerline of bridge, on top of a nail in the SE. cor. of a concrete bridge over Black Creek | 1245.35 |
| 46 | 15.9 | UE 15 B, 2 mi | S. along road from tablet on top of a hwy. nail and washer in centerline of crossroads | 1256.3 |
| 49 | 16.9 | BM, Ringsted; at county road "A 34", R.R. crossing, 2 mi S., 1.4 mi E. of; T. 98 N., R. 31 W., sec. cors. 26, 27, 34 and 35, 27 ft N., 43 ft E. of; and 5.7 ft lower than crossroads, 1 ft S. of a telephone pole and 1.3 ft W. of a corner post and witness sign, set in top of a 0.5-in. copper coated steel rod enclosed by a 6-in. tile set flush with ground, a standard tablet stamped "16 CDL 1976" | | 1243.479 |
| 50 | 16.9 | Reference mark, 2 ft N., 22 ft W. of tablet and 30 ft N., 27 ft E. of crossroads; a chiseled square on top of a concrete culvert | | 1244.57 |
| 53 | 17.9 | UE 16 A, 1 mi | S. along road from tablet, T. 97 and 98 N., R. 31 W., sec. cors. 2, 3, 34 and 35, 51 ft S., 66 ft W. of; and 0.6 ft lower than crossroads and 1 ft E. of entrance to a wire corn crib, a chiseled square on a concrete foundation for a wire corn crib | 1259.86 |

WHITTEMORE QUAD. - 248 IA.

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| 55 | 18.9 | UE, Fenton B, (Described in Line 3) | 1274.77 |
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