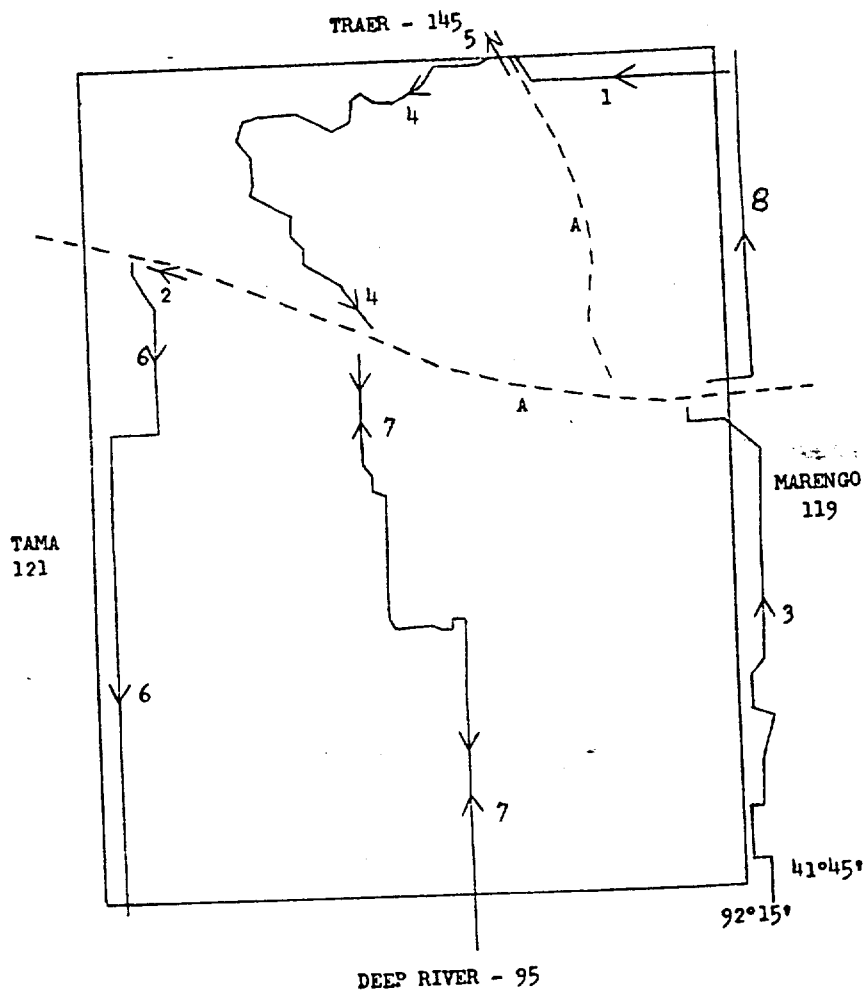


PR: ADP/GH/cb

BELLE PLAINE QUADRANGLE
120 - IOWA
N4145-W9215/15
DIAGRAM NK 15-8
DES MOINES



A. Quadrangle 410921

120 D

2
BELLE PLAINE QUADRANGLE
120 - IOWA

FEET

LINE 1

C.L. Crutchfield, 1970; Book CV-2506

MARENGO QUAD. - 119

- 2 3 0.0 Keystone, 0.5 mi S. and 2.0 mi W. of, T. 83 N., R. 12 W., near cor. secs. 15, 16, 21 and 22, 38 ft N. and 32 ft W. of center of crossroads, 2 ft E. of W. right-of-way fence, in top of a concrete post; a standard tablet stamped "14 GHC 1964 918" 918.244

BELLE PLAINE QUAD. - 120

- 3 1.0 UE 14 1 A, 1.0 mi W. along a county rd. from tablet center of crossroads; painted "UE Centerline" 933.0
- 4 2.0 UE 14 1 B, 2.0 mi W. along a county rd. from tablet, center of crossroads; painted "UE Centerline" 943.2
- 5 2.6 Elberon, 1.0 mi S. and 1.5 mi E. of; near the center of secs. 18, 19, T. 83 N., R. 12 W., 15 ft N. and 245 ft W. and 4.2 ft lower than centerline of E.-W. rd. at N.-S. fence in the center of the N. headwall of a concrete box culvert; a standard tablet stamped "1 CLC 1970 911" 911.358
- 6 2.6 Reference mark, 30 ft S. and 1.7 ft lower than tablet, in the center of the S. headwall of a concrete box culvert; a chiseled square; painted "RM" 909.6
- 7 2.9 UE 1 A, 0.4 mi W. along a county rd. from tablet center of crossroad, a RR. spike; painted "UE Centerline" 920.04
- 9 4.2 UE 1 B, 1.7 mi W. along a county rd. from tablet center of crossroads, painted "UE Centerline" 842.5
- 10 4.5 UE 1 C, 2.0 mi W. along a county rd. from tablet, center of E.-W. gravel and old RR. bed; painted "UE Centerline" 824.6

TRAER QUAD. - 145

- 11 4.7 1.0 mi S. along the Chicago & North Western RR. from the station at Elberon, Tama County, 4 poles N. of milepost 8, at bridge 22, in the N. end of the E. headwall, and about 2 ft lower than the rail, a monel metal rivet. 814.805

LINE 2

W.E. Knouse, 1967; Book CV-2190

BELLE PLAINE QUAD. - 120

- 0.0 Chelsea, 3.6 mi W. along the Chicago and North Western RR. from the station at, Tama County 17 poles W. of milepost 126, at 6 by 17 ft reinforced concrete box culvert 368, in the SW. cor. of the S. concrete headwall, 12 ft S. of the center of the track, and about 2 ft lower than the rail. A standard USC&GS disk, stamped "S 83 1934" 797.521
- 0.3 UE S 83 A; T. 82 N., R. 14 W.; near center secs. 3, at a RR. crossing; on top and center of the northernmost crossing plank; copper nail and washer 803.55
- 0.8 UE S 83 B; Ts. 82 and 83 N., R. 14 W., near quarter cor. secs. 3 and 34, 13 ft S. of center of rd. W., 18 ft W. of center of rd. running S., in line with center of portion of rd. N., (offset T-rd. W.), on top of the northwesternmost reinforcement post for the NW. wingwall of a small wooden bridge and about level with floor of bridge, a copper nail 799.08

FEET

BELLE PLAINE QUAD. - 120

LINE 2 (Cont'd)

- 1.9 UE S 83 C, Ts. 82 and 83 N., R. 14 W.; near quarter cor. secs. 4 and 33; 31 ft S. and 48 ft E. of T-rd. S., on E. end of corrugated steel culvert; punch mark (Note: T-rd. curves into "T" and is not straight) 798.88
- 2.2 Tama, 5.1 mi E. along the C. & NW. RR. from the station at, Tama County, 3 poles E. of milepost 128, 235 ft W. of a public road crossing, at 6 by 8 ft reinforced concrete box culvert 370, in the W. end of the S. concrete headwall, 36 ft S. of the center of the S. track, and about 3 ft lower than the rail. A standard USC&GS disk stamped "R 83 1934" 801.347

LINE 3

NORTH ENGLISH QUAD. - 94

D.W. Bennett, 1966; Book GV-2062

(Leveling performed by Second-Order methods)

- 26.3 UE 18 B DWB, T. 80 N., R. 12 W., near N. sixteenth cor. secs. 15 and 16, 24 ft N. of and 64 ft W. of junction of U.S. Hwy. 6 and N.-S. gravel rd., iron pin on N. headwall of 9 x 20 concrete box culvert, painted "UE 788.5" (9 ft above drain and 1 ft lower than crossroads) 788.67

MARENGO QUAD. - 119

- 26.9 Ladora, 0.3 mi S. and 3.0 mi W. of, T. 80 N., R. 12 W., 0.2 mi N. of cor. secs. 9, 10, 15 and 16; 19 ft N., 33 ft W. of T-rd. E., 5 ft S. of power pole, in top of a concrete post; a standard tablet stamped "11 GHC 1964 896"; painted "BM 895.6" 895.475
- 26.9 Reference mark; 80 ft SE. of tablet, in N. side of power pole; a rail spike 889.46
- 27.6 UE 10 C, 2.0 mi S. of tablet, T. 80 N., R. 12 W., near cor. secs. 3, 4, 9 and 10, 84 ft N., 65 ft E. and 4.6 ft lower than center of rd. at drive NW., in S. end of 48-in. corrugated steel pipe culvert, a punched hole, painted "UE 847.3" 847.18
- 28.6 UE 10 B, 1.0 mi S., thence 0.5 mi W., thence 0.5 mi S. along rds. from tablet, T. 80 N., R. 12 W., near center sec. 4, 18 ft N., 35 ft W. and 0.6 ft lower than center of rd. at fence W., in the E. side of a power pole, a rail spike; painted "UE 903.3" 903.21
- 29.6 UE 10 A, 1.0 mi S. along rd. from tablet, Ts. 80 and 81 N., R. 12 W., near cor. secs. 3, 4, 33 and 34; 24 ft S., 3 ft E. and 1.4 ft higher than T-rd. N.; in N. side of power pole, a rail spike, painted "UE 888.0" 887.93
- 30.6 Koszta, 2.6 mi S. and 1.8 mi W. of, T. 81 N., R. 12 W., near cor. secs. 27, 28, 33 and 34, 57 ft N., 26 ft W. of center of crossroads, 4 ft N. of a power pole, in top of a concrete post; a standard tablet stamped "10 GHC 1964 827"; painted "BM 826.8" 826.668
- 30.6 Reference mark; 185 ft S. of tablet, in W. end of a 30-in. corrugated steel pipe culvert, a punched hole 825.85
- 31.7 UE 9 C, 2.1 mi S. of tablet, T. 81 N., R. 12 W., near cor. secs. 21, 22, 27 and 28; 12 ft S., 40 ft E. and 0.6 ft higher than rd. at bridge, on E. end of S. bridge railing; a chiseled square, painted "UE 786.6" 786.55
- 32.5 UE 9 B, 1.6 mi S. and 0.25 mi W. of tablet, T. 81 N., R. 12 W., 0.25 mi W. of quarter cor. between secs. 21 and 22, 4 ft N., 20 ft W. and 3.6 ft lower than center of rd. at culvert, in N. end of a 12-in. corrugated steel pipe culvert; punched hole, painted "UE 817.5" 817.42
- 33.5 UE 9 A, 1.0 mi S. along rd. from tablet, T. 81 N., R. 12 W., 0.2 mi N. of cor. secs. 15, 16, 21 and 22; 15 ft N., 34 ft W. and 4.1 ft lower than center of island formed by N.-S. rd. at rd. E., in W. end of 14-in. corrugated steel pipe culvert, punched hole, painted "UE 870.4" 870.27

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BELLE PLAINE QUADRANGLE
120 - IOWA

FEET

LINE 3 (Cont'd)

MARENGO QUAD. - 119

- 34.1 Rd. at bridge 792.3
- 34.5 Koszta, 0.5 mi N. and 1.8 mi W. of, T. 81 N., R. 12 W., near cor. secs. 9, 10, 15 and 16; 125 ft S. and 40 ft E. of center of State Hwy. 212 at T-rd. S., 6 ft S. of power pole, 2 ft N. of fence, in top of concrete post; standard tablet stamped "GHC 1964 782", painted "EM 782.1" 781.972
- 35.4 Reference mark, 55 ft NW. of tablet, in E. end of 24-in. corrugated steel pipe culvert, a punched hole 778.60
- 35.8 UE ET 13 C, 2.1 mi S. and 0.5 mi E. of tablet, T. 81 N., R. 12 W., 0.2 mi N. of quarter corner between secs. 3 and 10; 30 ft N., 60 ft W. and 5.2 ft lower than center of rd. at drive W., on SW. end of a 24-in. round iron culvert; a chiseled square, painted "UE 756.5" 756.37
- 36.8 UE ET 13 B; 1.4 mi S. and 0.25 mi E. along rd. from tablet, Ts. 81 and 82 N., R. 12 W., 0.25 mi W. of cor. secs. 3, 4, 33 and 34, 30 ft S., 2 ft W. and 2.5 ft lower than center of rd. at fence S., in the W. end of a 14-in. corrugated steel pipe culvert; a punched hole 759.62
- 37.9 UE ET 13 A, 0.6 mi S. along rd. from tablet, T. 82 N., R. 12 W., 0.2 mi S. at cor. secs. 27, 28, 33 and 34; 17 ft N., 35 ft E. and 3.5 ft lower than T-rd. E., on N. end of a 24-in. round concrete culvert; a chiseled square, painted "UE 793.3" 793.26
- 38.5 Belle Plaine, about 2.0 mi E. and 1.0 mi S. of, near quarter cor. between secs. 27 and 28, T. 82 N., R. 12 W., 78 ft S. and 35 ft E. of gravel T-rd. S., in pasture land, 43 ft S. of fence cor. at NW. cor. of pasture, 1 ft E. of fence, in concrete post; standard tablet stamped "ET 13 JS 1963" 934.508
- 38.5 Reference mark, 99.8 ft from station, 130 ft E. of T-rd. S., 37 ft S. of gravel rd., 93 ft E. of NW. fence cor. of pasture, 2 ft S. of fence; in concrete post; standard reference tablet stamped "ET 13 JS 1963" 932.80
- 39.5 UE B 84 A, 0.4 mi S. and 0.7 mi E. along rds. from disk; T. 82 N., R. 12 W., near quarter cor. between secs. 21 and 28, 42 ft N., 68 ft E. and 2.1 ft higher than center of rd. at drive N., in S. side of a power pole; a rail spike, painted "UE 940.3" (Note: Spike missing from pole; replaced spike in original hole DWB 1966) 940.16

BELLE PLAINE QUAD. - 120

- 40.7 Belle Plaine, 0.4 mi E. along Chicago & North Western RR. from the public library at, 2 poles W. of milepost 116, at overhead bridge 342, in SE. cor. of SW. stone wingwall of W. abutment, 14 ft S. of the center of the track, and about 2 ft higher than the rail; a USC&GS standard disk stamped "B 84 1934" 830.087

LINE 4

D.W. Bennett, 1966; Book CV-2062

TRAER QUAD. - 145

- 0.0 At Eberson, about 6 poles S. of the C. & N.W. RR. station, about 4 poles S. of milepost 9, about 170 ft N. of crossing of Chicago, Milwaukee, St. Paul and Pacific RR., in the NW. cor. of a concrete switch block, 10 ft W. of the center of the track, and about level with the rail; a USC&GS standard disk stamped "U 82 1934" USC&GS Elev. of 821.373 could not be reconciled. New elev. by USGS. 821.560

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BELLE PLAINE QUADRANGLE
120 - IOWA

	<u>FEET</u>
<u>BELLE PLAINE QUAD. - 120</u>	
<u>LINE 4 (Cont'd)</u>	
0.6 UE U 82 A, T. 83 N., R. 13 W., near quarter cor. secs. 10 and 15, at a steel truss bridge, at the E. end of the bridge, 13 ft N. of the center, chiseled square on bridge abutment, painted "UE 819.2" (Water 16.7 ft lower)	819.18
1.3 UE U 82 B; T. 83 N., R. 13 W., near sixteenth cor. secs. 9 and 16, at a T-rd. N., a rail spike in pavement, painted "UE CL 868.3"	868.31
2.5 UE U 82 C, T. 83 N., R. 13 W., in the SE $\frac{1}{4}$ sec. 17, at a T-rd. W., a rail spike at the center of pavement, painted "UE CL 978.7"	978.8
2.8 Belle Plaine, 5.5 mi W. of, 7.0 mi N. of, about 1.0 mi NW. of the school at Vining, T. 83 N., R. 13 W., near the center of sec. 17, at a culvert at a low place, 14 ft N. of center of rd., on the W. end of the culvert, standard tablet stamped "1 DWB 1966 899"; painted "BM 898.6" 2 ft lower than center of rd.	898.595
2.8 Reference mark, 110 ft W. of mark, 28 ft S. of mark, a copper nail and washer in top of a willow stump, painted "BM 896.4"	896.40
3.8 UE 1 DWB A, T. 83 N., R. 13 W., near the center of sec. 18, at a bridge over a small stream, 200 ft SW. of a Y-rd., 9 ft NW. of center of bridge, a chiseled square on the NW. cor. of bridge curb, and 0.5 ft higher than bridge floor, painted "UE 871.2" (Water 16.9 ft lower)	871.29
4.9 UE 1 DWB B, T. 83 N., R. 13 W., R. 14 W.; near quarter cor. secs. 19 and 24, at a Y-rd., 127 ft N. of center of grassy triangle, 28 ft W. of center of rd.; a rail spike in telephone pole, about 1 ft lower than center of grass triangle, painted "UE 1007.6"	1007.68
5.9 Toledo, 7.5 mi E. and 0.5 mi S. of junction of U.S. 63 and U.S. 30 at, about 1.5 mi NE. of junction of U.S. 30 and Iowa 212, at the site of the Pleasant Hill School, in the NW. cor. of the schoolyard, T. 83 N., R. 14 W., in SW $\frac{1}{4}$ sec. 24, 82 ft NW. of the NW. cor. of the school, 51 ft N. of a 36-in. oak tree, 31 ft S. of center of the rd., 6 ft E. and 2 ft S. of cor. of schoolyard post; a standard tablet set in top of a concrete post stamped "2 DWB 1966 1012"; painted "BM 1012.2"	1012.285
5.9 Reference mark; 150 ft SE. of mark, on bottom step of the Pleasant Hill School, on the N. end of the step, chiseled square, painted "BM 1013.2"	1013.30
6.5 UE 2 DWB A; T. 83 N., R. 14 W.; in SE $\frac{1}{4}$ sec. 23, at a Y-rd. 114 ft E. of center of a grassy triangle, 38 ft NE. of SE. leg of the Y-rd. 3 ft lower than the center of the triangle, a rail spike in W. side of a 24-in. forked oak tree, painted "UE 981.7"	981.83
7.3 UE 2 DWB B; T. 83 N., R. 14 W., near the quarter cor. of secs. 24 and 25, at a T-drive W., 0.5 mi N. of U.S. 30; 55 ft W. and 25 ft S. of T-drive W., about level with the rd., a rail spike in a power pole, W. side, painted "UE 981.8"	981.86
8.0 UE 2 DWB C; T. 83 N., R. 14 W., near N. sixteenth cor. secs. 35 and 36, at Iowa 212 and T-rd. N., 77 ft W. and 32 ft N. of T-rd. N., about level with center of Hwy. and 3.8 ft higher than drain; chiseled square at center of N. headwall of concrete culvert; painted "UE 819.0"	819.12
9.1 Toledo, (the jct. of U.S. 63 and U.S. 30), 2.5 mi S. of, 8.5 mi E. of, Belle Plaine, about 9.0 mi W. of, along Iowa 212, T. 83 N., R. 14 W., in SE $\frac{1}{4}$ sec. 36, about 100 yards W. of the Joe Musel farmhouse, 115 ft N. of the N. cor. of a red barn, 25 ft SW. of center of Iowa 212 and about level with the centerline, 15 ft N. of a pole, 9 ft S. of a culvert marking post, 6.5 ft above the drain; a standard tablet set in a concrete culvert headwall at SE. end, stamped "3 DWB 1966 808"; painted "BM 807.6"	807.715

6
BELLE PLAINE QUADRANGLE
120 - IOWA

FEET

BELLE PLAINE QUAD. - 120

LINE 4 (Cont'd)

- 9.3 Reference mark; 840 ft S. of mark, along Iowa 212, at the first culvert, S. of mark, chiseled square on NW. end of N. concrete culvert headwall; painted "RM 798.2" 798.31
- 9.8 UE 3 DWB A; T. 82 N., R. 13 W., in SW¹ sec. 6, at the SE. cor. of the Otter Creek game preserve headquarters grounds, at a culvert under Iowa 212, 17 ft N. of center of Hwy., 3.4 ft above the drain; chiseled square on NW. end of concrete headwall, painted "UE 789.3" 789.47
- 10.9 UE 3 DWB B; T. 82 N., R. 13 W., in NE. cor. sec. 7, at a double 4 x 4 box culvert under Iowa 212, about 0.25 mi NW. of the Chelsea Turn-off; chiseled square 14 ft N. and 4.4 ft above the drain at the center of the concrete headwall, painted "UE 791.9" 792.10
- 11.6 UE 3 DWB C; in Chelsea, at the N. edge of town, at 200 ft concrete bridge; at the S. end of the bridge sidewalk, 15 ft W. of the center of the bridge and 10.8 ft above the drain; chiseled square; painted square, painted "UE 786.3" 786.41
- 11.7 At Chelsea, 100 ft E. of the C. & N.W. RR. station, at the First National Bank, 35 ft S. of the center of the S. track, at the NE. cor. of the building, and in the E. limestone block wall; a USC&GS standard disk stamped "V 83 1934" and set vertically 791.531

LINE 5

D.W. Bennett, 1966; Book CV-2062

BELLE PLAINE QUAD. - 120

- 0.0 (C. & N.W. RR.) Elberon, 1.0 mi S. along the C. & N.W. RR. from the station at, 4 poles N. of milepost 8, at bridge 22, in the N. end of the E. headwall and about 2 ft lower than the rail; a USC&GS monel metal rivet 814.805

TRAER QUAD. - 145

- 0.8 USC&GS "U 82 1934" (Described in line 4) (New elev. by USGS) 821.560
- 0.8 6 (C. & N.W. RR.) at Elberon, about 4 poles S. of the C. & N.W. RR. station, about 2 poles S. of Milepost 9, at a signal, in the NW. cor. of the concrete base, 12 ft W. of the center of the track, and about level with the track; a USC&GS monel-metal rivet 821.527

LINE 6

D.W. Bennett, 1966; Book CV-2062

BELLE PLAINE QUAD. - 120

- 0.0 "R 83 1934" (previously described in Line 2) 801.347
- 0.5 Center of Iowa River Bridge, water 17.6 ft lower, painted "CL 806.1" 806.1
- 0.6 UE R 83 A, 5.75 mi E. along U.S. 30 from U.S. 63 junction, thence S. 2.0 mi to Iowa River, at W. end of SE. abutment, 11 ft W. of the center of bridge; chiseled square on 1 ft concrete curb, painted "UE 805.4" 805.44
- 1.3 UE R 83 B; T. 82 N., R. 14 W., near N. sixteenth cor. secs. 9 and 10, 0.7 mi S. along rd. from Iowa River, near crest of hill, at a drive E., 25 ft E. of center of rd., 15 ft N. of center of gate, 2.2 ft lower than T-drive E., a punched hole in a 24-in. corrugated metal pipe culvert, painted "UE 887.5" 887.48
- 1.9 UE R 83 C, T. 82 N., R. 14 W., at cor. secs. 9, 10, 15 and 16; 33 ft N. and 38 ft E., 1 ft lower than crossroads, a rail spike in a power pole, painted "UE 934.6" 934.60

FEET

BELLE PLAINE QUAD. - 120

LINE 6 (Cont'd)

- 2.9 UE R 83 D, T. 82 N., R. 14 W., at the cor. secs. 15, 16, 21 and 22, 0.5 mi N. of a concrete bridge and gaging station, 24 ft N. and 27 ft W., 2.2 ft lower than crossroads; chiseled square on 24-in. round concrete pipe culvert, painted "UE 867.3" 867.35
- 3.4 Chelsea, 1.5 mi S., 4.0 mi W. from bank at, about 0.5 mi NE. of the Haven Community, at a concrete and steel bridge over Haven Creek, T. 82 N., R. 14 W.; near quarter cor. secs. 21 and 22, 36 ft SE. of a USGS gaging station house, 13.5 ft E. of center of bridge, in SE. wingwall of bridge, 1 ft higher than center of bridge; standard tablet set in concrete, stamped "24 DWB 1966 818", painted "EM 818.4" Water 19.7 ft lower 818.456
- 3.3 Reference mark; 150 ft NW. of mark; 12 ft W. of center of bridge atop curved wing wall; chiseled square, painted "RM 820.7" 820.72
- 4.1 UE 24 A DWB; T. 82 N., R. 14 W., at W. sixteenth cor. secs. 21 and 28, at the Haven Community, 500 ft SW. of the Church, at the center of crossroads; crossmark, at center of concrete pavement, painted "UE CL 873.3" 873.43
- 4.9 UE 24 B DWB; T. 82 N., R. 14 W., at cor. secs. 20, 21, 28 and 29, cross mark at center of concrete pavement and T-rd. S., painted "UE CL 841.1" 841.23
- 5.8 Chelsea, 2.75 mi S., 5.0 mi W. from the Bank at; Brooklyn, 10.5 mi N. of, 2.5 mi W. of, T. 82 N., R. 14 W., about 0.1 mi N. of cor. secs. 28, 29, 32 and 33, at a concrete box culvert under N.-S. gravel rd., about 0.1 mi N. of a T-rd. W., 18 ft W. of N.-S. rd. and 4.6 ft above drain; a standard tablet in S. end of W. headwall; stamped "25 DWB 1966 897", painted "EM 897.4" 897.507
- 5.8 Reference mark; 150 ft S. of mark, in first pole, rail spike E. side, painted "RM 900.6" 900.73
- 6.3 UE 25 DWB; T. 82 N., R. 14 W.; near quarter cor. secs. 32 and 33, at a wooden bridge, a copper nail and washer on top of piling, 10 ft E. of center and level with center at N. end of bridge; water 13.6 ft lower, painted "UE 863.4" 863.52
- 6.8 UE 25 B DWB; T. 82 N., T. 81 N., R. 14 W.; near cor. secs. 4, 5, 32 and 33, 205 ft N. of crossroads, 33 ft W. and 10 ft S. of field entrance W., rail spike in power pole, NW. side, painted "UE 969.8" 969.89
- 7.8 UE 25 C DWB; T. 81 N., R. 14 W., at cor. secs. 4, 5, 8 and 9; 21 ft S. and 32 ft E. of crossroads, punched hole in 24-in. corrugated metal pipe culvert, painted "UE 921.2" (3.7 ft lower than crossroads) 921.30
- 8.9 Brooklyn, 7.25 mi N. of, 2.5 mi W. of, from Municipal Power Plant at, 6.0 mi N. of U.S. Hwy. 6, T. 81 N., R. 14 W., near cor. secs. 8, 9, 15 and 16; 335 ft S. and 48 ft W. of crossroads, 35 ft SW. of W. end of an 18-in. corrugated metal culvert, at a ditch block W., 3.8 ft higher than rd. opposite, 1 ft E. of witness sign; a standard tablet set in concrete post, stamped "26 DWB 1966 911", painted "EM 910.7" 1.5 ft E. of N.-S. fence 910.829
- 8.8 Reference mark; 350 ft N. of mark, 15 ft N. and 22 ft W. of crossroads, punched hole in a corrugated metal pipe culvert, painted "RM 910.4" 910.55
- 9.4 UE 26 A DWB; T. 81 N., R. 14 W., near quarter cor. secs. 16 and 17, at a bridge, 9.5 ft W. of center of bridge and 16.6 ft above water, chiseled square on N. end of concrete curb, 1 ft higher than center of bridge, painted "UE 849.0" 849.23
- 9.9 UE 26 B DWB; T. 81 N., R. 14 W., near cor. secs. 16, 17, 20 and 21, at T-rd. E., 50 ft N. and 42 ft E. of T-rd. E., a rail spike in power pole, 2.9 ft higher than T-rd. painted "UE 917.3" 917.92

8
BELLE PLAINE QUADRANGLE
120 - IOWA

LINE 6 (Cont'd)	BELLE PLAINE QUAD. - 120	FEET
10.9 UE 26 C DWB; T. 81 N., R. 14 W., at cor. secs. 20, 21, 28 and 29; 13 ft N. and 35 ft E. and 0.2 ft higher than T-rd. W., a rail spike in power pole W. side, painted "UE 968.1"		968.30
11.7 Brooklyn, 4.5 mi N. of, 2.5 mi W. of, from Municipal Power Plant at, T. 81 N., R. 14 W., about 0.1 mi N. of cor. of secs. 28, 29, 32 and 33, 3.1 mi N. of U.S. Hwy. 6 at the Henry Hendrickson farmhouse, 92 ft N. of drive to house, 36 ft E. of center of rd. at NW. cor. of the yard, 69 ft W. of NW. cor. of house, 3 ft N. of a power pole and 1 ft SW. of a witness sign; standard tablet stamped set in concrete post stamped "27 DWB 1966 963" painted "BM 963.1"		963.292
11.7 Reference mark, 70 ft SE. of mark, crossmark, on top of NW. concrete step banister; not painted		965.33
12.9 UE 27 A DWB; T. 81 N., T. 80 N., R. 14 W.; at cor. secs. 4, 5, 32 and 33; 19 ft N., 52 ft W., and 4 ft lower than crossroads, a punched hole in a 24-in. corrugated metal pipe culvert, painted "UE 955.7"		954.17
13.4 UE 27 B DWB; T. 80 N., R. 14 W.; at quarter cor. secs. 4 and 5, 13 ft N., 27 ft E. and 3.4 ft lower than T-rd. E., a punched hole in a 15-in. corrugated metal pipe culvert, painted "UE 946.0"		944.51
14.4 UE 27 C DWB; T. 80 N., R. 14 W., near quarter cor. secs. 8 and 9, at a steel and wooden bridge, 10 ft W. and level with center of bridge; a copper nail and washer in NW. abutment, about 1 ft W. of rail, painted "UE" Water 18.7 ft lower		848.00
14.9 UE 27 D DWB; T. 80 N., R. 14 W.; at cor. secs. 8, 9, 16 and 17, center of U.S. Hwy. 6, and N.-S. gravel rd., crossmark, painted "UE CL 920.4"		919.02

DEEP RIVER QUAD. - 95

15.0 Brooklyn, 1.15 mi N., 2.5 mi W. from Municipal Power Plant at, 500 ft S. of U.S. Hwy. 6, 115 ft NW. of NW. cor. of the W. Frizzell farmhouse, 31 ft E. of N.-S. rd., 10 ft N. of center of gate at field entrance E., 9 ft SE. of a small telephone pole, 2 ft W. of N.-S. fence, 1.5 ft W. of standard witness sign; standard tablet set in concrete post flush with ground, stamped "28 DWB 1966 935"; painted "BM 934.6"	933.241
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LINE 7

C.D. Lien, 1966; Book CV-2048	BELLE PLAINE QUAD. - 120
Leveled twice	
0.0 USC&GS "V 83 1934" (Described in Line 4)	791.531
0.0 UE, at Chelsea, a copper nail and washer in center of the S. track at rd. crossing, painted "83 A"	788.24
0.5 UE, 0.53 mi S. along rd. from tablet, a copper nail and washer in the center of a wooden bridge, 10.8 ft higher than water, painted "83 B"	786.42
0.9 UE, 0.95 mi S. along rd. from tablet, a copper nail and washer in the center of rd. at the S. end of a steel bridge over the Iowa River, 0.2 ft lower than center of bridge, 16.1 ft higher than water, painted "83 C"	789.89
1.6 UE Chelsea, 1.65 mi S. along rd. from center of rd. at S. track crossing, in Chelsea, T. 82 N., R. 13 W.; near the S. sixteenth cor. between secs. lines 19 and 20, 24.3 ft N., 25.5 ft W. from center of rd. at T-rd. W., 0.5 ft lower than rd. at T-rd. W., 4 ft higher than drain, a chiseled square in N. end of a concrete culvert; painted "83 D"	807.98

FEET

BELLE PLAINE QUAD. - 120

LINE 7 (Cont'd)

- | | | |
|-----|---|---------|
| 2.3 | UE, a copper nail and washer in stump of tree | 944.81 |
| 2.7 | Chelsea, RR. crossing at Main St., 2.75 mi S. of, T. 82 N., R. 13 W.; near the S. sixteenth cor. between sec. lines 29 and 30, 32.2 ft N., 330 ft E. from center of rd. at T-rd. N., 39.7 ft N., 29.6 ft W. and 2 ft lower than center of rd. at private drive N. to the A.W. Kalina farm, 2.6 ft S. from right-of-way fence, a standard tablet in a concrete post stamped "13 CDL 1966" | 956.51 |
| 2.7 | Reference mark, 20.2 ft S., 76.3 ft E. from center of rd. at T-rd. N., 20.2 ft S., 264 ft W. from tablet, a punched hole in the S. end of a metal culvert | 953.26 |
| 3.5 | UE, Chelsea, RR. crossing at Main St., 3.25 mi S., 0.5 mi E. of, T. 82 N., R. 13 W., near the center of sec. 32, 59 ft S., 21.7 ft E. from center of rd. at T-rd. W., a punched hole in the E. end of a metal culvert, 5.9 ft lower than rd. over culvert, painted "13 A" | 936.50 |
| 4.0 | UE, Chelsea, RR. crossing, at Main St., 3.75 mi S., 0.5 mi E. of, T. 82 N., R. 13 W.; near center of sec. 32, 16 ft S., 131 ft E. and 7.3 ft lower than rd. at T-rd. E., and 7.8 ft higher than drain; a punched hole in a metal culvert, painted "13 B" | 892.97 |
| 4.5 | Chelsea, RR. crossing at Main St., 4.5 mi S., 0.5 mi E. of, T. 81 N., R. 13 W.; near the center of sec. 5, 87 ft S., 30 ft W. and 2 ft higher than rd. at field rd. E., 16.6 ft S. from center of gate on field rd.; a standard tablet stamped "ET 13 RFP 1965" | 942.064 |
| 4.5 | Reference mark; 96 ft S., 70 ft E. from tablet, 70 ft E. from T-fence W.; 11.6 ft N., 36 ft E. from center of rd. at field rd. E., a reinforcing rod in a concrete post | 942.34 |
| 5.3 | UE, Chelsea, RR. crossing, at Main St., 5.0 mi S., 0.5 mi E. of, T. 81 N., R. 13 W., near the quarter cor. between sec. lines 5 and 8, 62 ft S., 60 ft W. and 0.2 ft higher than center of rd. at T-rd. W., 1.5 ft N. of a painted telephone pole, a reinforcing rod in a concrete post, painted "13 C" | 872.29 |
| 5.7 | UE, T. 81 N., R. 13 W., near the center sec. 8, 1.1 mi S. along rd. from tablet, 27.5 ft W. and 1 ft higher than center of rd. at private drive E., a rail spike in telephone pole, painted "13 D" | 866.25 |
| 6.2 | T. 81 N., R. 13 W.; near the quarter cor. between sec. lines 8 and 17, Chelsea, center of RR. crossing at Main St., 6.0 mi S., 0.5 mi E., 494 ft N., 12.6 ft W. from center of crossroads, 32.6 ft N., 12.6 ft W. from center of bridge; a standard tablet in a concrete walk to gaging station at a steel bridge over Walnut Creek, stamped "14 CDL 1966" 0.1 ft higher than center of bridge, 14.8 ft higher than water | 805.254 |
| 6.2 | Reference mark, 33.2 ft S., 14 ft W. from center of bridge, 65 ft S. from tablet, a chiseled square in the SE. cement abutment of bridge square, painted red | 805.10 |
| 7.0 | UE, T. 81 N., R. 13 W., near the sixteenth cor. between sec. lines 9 and 16, Chelsea center of RR. crossing and Main St., 6.0 mi S., 1.25 mi E. of, 38.9 ft S., 30.8 ft E. from center of rd. at T-rd. S., 5.3 ft lower than T-rd. S., a punched hole in the S. end of metal culvert, painted "14 A" | 794.57 |
| 7.4 | UE, 0.09 mi S., 1.0 mi E. from tablet, a copper nail and washer in center of wooden bridge, 15.9 ft higher than water, painted "14 B" | 801.56 |

10
BELLE PLAINE QUADRANGLE
120 - IOWA

FEET:

LINE 7 (Cont'd)

BELLE PLAINE QUAD. - 120

- 7.8 UE, T. 81 N., R. 13 W., at sec. cors. 9, 10, 15 and 16; Chelsea, at RR. crossing and Main St., 6.0 mi S., 2.0 mi E. of, 28.6 ft S., 37.5 ft W. from center of crossroads, 2.6 ft lower than crossroads, a punched hole in the W. end of a metal culvert; painted "14 C" 817.64
- 8.8 UE, T. 81 N., R. 13 W., sec. cors. 15, 16, 21 and 22, Chelsea, a RR. crossing and Main St., 7.0 mi S., 2.0 mi E. of, 22.3 ft N., 20 ft W. from center of crossroads, 2.2 ft lower than crossroads, a punched hole in the W. end of a metal culvert, painted "14 D" 840.73
- 9.7 Chelsea, 8.0 mi S., 2.0 mi E. of; Hartwick School, 1.2 mi N., 0.8 mi W. of, T. 81 N., R. 13 W., sec. cors. 21, 22, 27 and 28; 28.2 ft S., 29.9 ft E. from center of rd. at field rd. E., 2.4 ft W. from right-of-way fence, 19.2 ft N., 29.9 ft E. and 1.9 ft lower than rd. at private drive W. to the G.D. Block farm; a standard tablet stamped "15 CDL 1966" 925.65
- 10.7 UE, Hartwick School, 0.2 mi N., 0.8 mi W. of, T. 81 N., R. 13 W., sec. cors. 27, 28, 33 and 34; 30 ft N., 31.2 ft E. and 0.8 ft higher than crossroads, a chiseled square in the W. cor. of the second step of a concrete step to cemetery; painted "15 A" 915.13
- 11.7 UE, Hartwick School, 0.8 mi S., 0.8 mi W. of, at; T. 80 and 81 N., R. 13 W., sec. cors. 3, 4, 33 and 34, 39.3 ft N., 73.1 ft E. from center of rd. at T-rd. S., 43.5 ft N., 29.7 ft W. and 0.6 ft lower than T-rd. N., a reinforcing rod in a round concrete post, painted "15 B" 948.64
- 10.4 UE, 2.65 mi S. along rd. from tablet, T. 80 N., R. 13 W.; near the sixteenth cor. between secs. lines 3 and 4, a copper nail and washer in the center of wooden bridge, 8.3 ft higher than drain; painted "15 C" 866.62
- 12.7 Hartwick School, 1.8 mi S., 0.8 mi W., T. 80 N., R. 13 W.; sec. cors. 3, 4, 9 and 10; 32.7 ft N., 58.5 ft W. and 0.5 ft lower than crossroads, a standard tablet set in a concrete post, stamped "16 CDL 1966" 869.278
- 12.7 Reference mark; 18.4 ft N., 51 ft W. from center of crossroads, 13 ft S., 3 ft E. from tablet, a punched hole in the N. hole, in a metal culvert 870.11
- 13.4 UE, T. 80 N., R. 13 W., near the quarter cor. between sec. lines 9 and 10, 0.6 mi S. along rd. from tablet; a copper nail and washer in center of a wooden bridge, 15 ft higher than water, painted "16 A" 828.99

DEEP RIVER QUAD. - 95

- 13.8 UE, T. 80 N., R. 13 W., sec. cors. 9, 10, 15 and 16; 1.0 mi S. along rd. from tablet, a copper nail and washer in center of Hwy. 6, at Hwy. 21 S., painted "16 B" 919.84
- 14.7 UE, T. 80 N., R. 13 W., near sec. cors. 15, 16, 21 and 22; 115 ft N., 15.5 ft W. and 0.7 ft higher than center of bridge and 23.7 ft higher than water; a chiseled square in the NW. cor. of bridge, painted "16 C" 815.82
- 14.9 Victor, 3.1 mi W. along the track from the Iowa 419 crossing at, at the crossing of Iowa Hwy. 21, T. 80 N., R. 13 W., at N. sixteenth cor. secs. 21 and 22, 2.5 rails E. of 283, 28 ft S. and 28 ft E. of center of RR. crossing, 20 ft SE. of a RR. crossing gate, opposite station 1167 etched in concrete pavement; standard tablet set top of 6 ft concrete pipe culvert, stamped "15 DWB 1966 811"; painted "EM 810.9" 811.046

LINE 8

G.H. Clarin, 1964; Book CV-1690

BELLE PLAINE QUAD. - 120

0.0 USC&GS "B 84 1934" (Described in Line 3)

830.087

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BELLE PLAINE QUADRANGLE
120 - IOWA

FEET

LINE 8 (Cont'd)

BELLE PLAINE QUAD. - 120

0.8 UE B 84 V; 0.85 mi E. along State Hwy. 131 from disk, T. 82 N., R. 12 W., in NW $\frac{1}{4}$ sec. 21, about 500 ft E. of a centery, 22 ft normal to and on S. side of Hwy., in the center of S. headwall of a concrete culvert; a chiseled square; painted "UE 887.1" 887.14

MARENGO QUAD. - 119

1.5 T-rd. N. 813.4

1.7 UE B 84 X; 1.5 mi E. and 0.2 mi N. along State Hwy. 131 from disk, T. 82 N., R. 12 W., 740 ft N. of quarter cor. between secs. 21 and 22, 35 ft S., 12 ft E. and 0.3 ft lower than center of Hwy. at bridge, on SE. wingwall of a concrete and steel bridge, a chiseled square, painted "UE 810.1" 810.12

2.6 Hwy. at culvert and fence W. 866.7

3.0 UE B 84 Y; 1.5 mi E., thence 1.5 mi N. along State Hwy. 131 from disk; T. 82 N., R. 12 W., near cor. secs. 9, 10, 15 and 16; 20 ft S., 58 ft W. and 2.3 ft lower than center of Hwy. at crossroads, in S. end of a 14-in. corrugated steel pipe culvert, a punched hole, painted "UE 876.6" 876.61

4.0 Belle Plaine, 2.5 mi N. and 1.5 mi E. of, T. 82 N., R. 12 W., near cor. secs. 3, 4, 9 and 10, 29 ft N. and 39 ft E. of center of State Hwy. 131 at crossroad, 2 ft S. of right-of-way fence, in top of concrete post; a standard tablet stamped "13 GHC 1964 909"; painted "BM 909.4" 909.396

4.0 Reference mark, 115 ft S. of tablet, in W. side of a power pole, a rail spike 909.02

4.5 Center of Hwy. at culvert 875.1

5.0 UE 13 A, 1.0 mi N. along State Hwy. 131 from tablet, Ts. 82 and 83 N., R. 12 W., near cor. secs. 3, 4, 33 and 34; 34 ft N., 34 ft E. and 1.4 ft higher than center of State Hwy. 131 at crossroad; in W. side of a power pole, a rail spike, painted "UE 931.5" 931.54

5.4 Rd. at drain 889.8

6.0 UE 13 B; 2.0 mi N. along State Hwy. 131 from tablet, T. 83 N., R. 12 W., near cor. secs. 27, 28, 33 and 34; 99 ft S., 43 ft E. and 2.9 ft lower than center of U.S. Hwy. 30 and State Hwy. 64, at State Hwy. 131 S., and rd. N., on E. end of a 24-in. round concrete culvert; a chiseled square, painted "UE 937.4" 937.40

6.5 T-rd. W. 937.7

7.1 UE 13 C, 3.0 mi N. along State Hwy. 131 and gravel rd. from tablet, T. 83 N., R. 12 W., near cor. secs. 21, 22, 27 and 28; 6 ft S., 26 ft E. and 2.9 ft lower than center of rd. at cross fence, in S. end of a 12-in. corrugated steel pipe culvert; a punched hole, painted "UE 936.5" 936.52

7.8 Rd. at fence E. 913.8

8.1 Keystone, 0.5 mi S. and 2.0 mi W. of, T. 83 N., R. 12 W., near cor. secs. 15, 16, 21 and 22; 38 ft N., and 32 ft W. of center of crossroads; 2 ft E. of W. right-of-way fence, in top of concrete post; a standard tablet stamped "14 GHC 1964 918"; painted "BM 918.2" 918.244

8.0 Reference mark; 100 ft SE. of tablet, in W. side power pole; a rail spike 917.08