

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

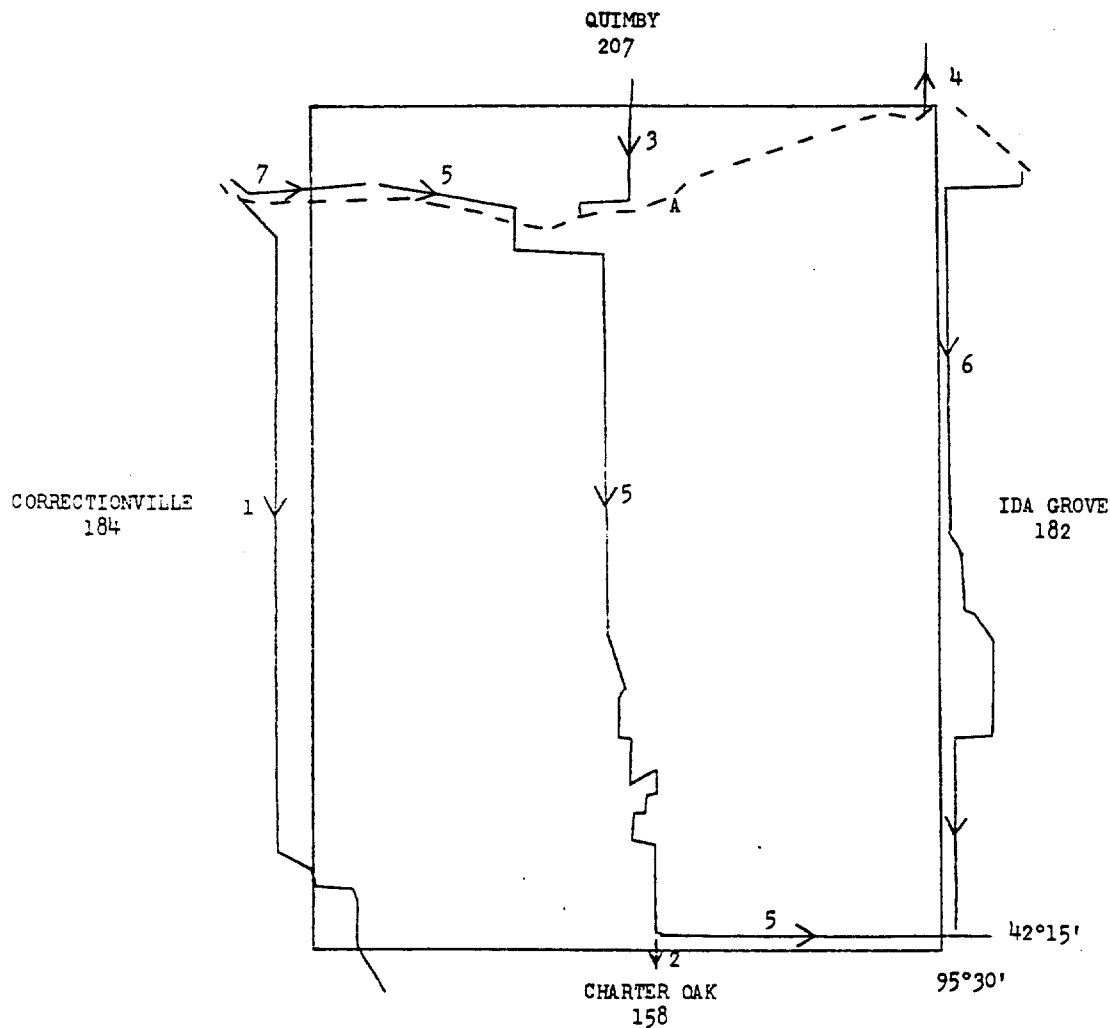
Ida and Woodbury Counties

FINAL ADJUSTMENT OF 1969

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BATTLE CREEK QUADRANGLE
183 - IOWA
N4215-W9530/15
Diagram NK 15-4
Fort Dodge, Iowa

Edition of 2/26/69
PR: AKH/PH/kw



A = Quadrangle No. 420953

Based on Supplemental Adjustment of 1937 and 1952

183 A

LINE 1

J. H. Tyndale, 1968; Book CV-2324

CORRECTIONVILLE QUAD. - 184

1	1	0.0	At Correctionville, on the Illinois Central RR., 70 yards NW. of the crossing of the Chicago & North Western Ry., 92 ft SE. of a rd. crossing, 58.2 ft NE. of the NE. rail, and 2.6 ft W. of a cor. fence post; a standard disk stamped "L 25 1934" and set in the top of a concrete post projecting 5 in. above ground.	1122.176
3	3.9		UE, 660 ft S., 10 ft W. and higher than crossroad, near quarter cor. secs. 5 and 6, T. 88 N., R. 41 W.; 43 ft concrete deck bridge; center of top NW. wingwall rail; chiseled square painted "UE"	1150.37
4	1.5		UE, opposite drive W. to Nicolaisen farmhouse, 15 ft N., 16 ft E. and 1.6 ft lower than center of rd. at fence NE., near cor. secs. 5, 6, 7 and 8, T. 88 N., R. 41 W.; center of 8 x 6 ft concrete box culvert set askew of rd.; chiseled square painted "UE"	1219.72
6	2.4		UE, 20 ft S., 25 ft E. and 0.5 ft lower than T-rd. E., cor. secs. 7, 8, 17 and 18, T. 88 N., R. 41 W.; 3 ft concrete pipe culvert; chiseled square painted "UE"	1354.08
8	3.4		Anthon, 3 mi N. and 5.5 mi E. of, 420 ft N., 34 ft W. and 7.7 ft higher than crossroad, cor. secs. 17, 18, 19 and 20, T. 88 N., R. 41 W., 10 ft N. of steel witness sign; 1 ft E. of W. right-of-way fence, on 10 ft copper coated rod inside 6 in. concrete tile; standard tablet stamped "24 T 1968 1283"	1282.666
9	3.5		Reference mark; 500 ft SW. of tablet, 14 ft S., 227 ft W. of crossroad, 6 x 6 ft concrete box culvert, center S. headwall, chiseled square painted "RMT"	1266.00
10	4.4		UE; 27 ft N., 24 ft E. and 5.5 ft lower than crossroad, cor. secs. 19, 20, 29 and 30, T. 88 N., R. 41 W.; 2.5 ft concrete pipe culvert; chiseled square painted "UE"	1316.37
12	5.6		UE; 42 ft N., 64 ft W. and 3.7 ft lower than T-rd. E., cor. secs. 29, 30, 31 and 32, T. 88 N., R. 41 W., 2.5 ft corrugated steel driveway culvert; punch hole; painted "UE"	1356.53
14	6.7		Center of County Highway "K" at rd. N. (rd. S. offset)	1255.7
14	6.7		Reference mark; 230 ft ESE. of tablet, 30 ft S., 33 ft W. of crossroad; center concrete retaining wall S. side 4 x 4 ft concrete box culvert, set askew; chiseled square painted "RMT"	1248.41
15	6.7		Anthon, 5.5 mi E. of, 52 ft N., 248 ft W. and 0.2 ft lower than crossroad, cor. secs. 31, 32, 5 and 6, Tps. 87 and 88 N., R. 41 W., 52 ft N. center of Co. Hwy. "K", 6 ft E. of short T-fence S., across hwy.; 8 ft W. of steel witness sign; 1 ft S. of N. right-of-way fence; on 10 ft copper coated rod inside 6 in. concrete tile; standard tablet stamped "25 T 1968 1255"	1255.483
17	7.8		UE; 22 ft N., 20 ft E. and 1.3 ft lower than crossroad, cor. secs. 5, 6, 7 and 8, T. 87 N., R. 41 W., 1.5 ft corrugated steel culvert; punch hole painted "UE"	1404.11
19	8.9		UE, 25 ft S., 12 ft E. and 2.2 ft lower than T-rd. E.; cor. secs. 7, 8, 17 and 18, T. 87 N., R. 41 W., center east headwall; chiseled square painted "UE"	1369.65
21	10.1		Reference Mark, 220 ft SE. of tablet, 28 ft N., 27 ft W. at crossroad, 1.5 ft concrete culvert; chiseled square painted "RMT"	1345.89
22	10.2		Anthon, 3 mi S. and 5.5 mi E. of, 35 ft S., 240 ft W. and 14.8 ft higher than crossroad, cor. secs. 17, 18, 19 and 20, T. 87 N., R. 41 W.; 6 ft W. of steel witness sign; 1 ft N. of S. right-of-way fence on 10 ft copper coated rod inside 6 in. concrete tile; standard tablet stamped "26 T 1968 1363"	1362.748

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 1 (Cont'd)

CORRECTIONVILLE QUAD. - 184

1 24	11.3	UE, 42 ft N., 37 ft W. and 4.5 ft higher than crossroad, cor. secs. 19, 20, 29 and 30, T. 87 N., R. 41 W.; S. side power pole, rail spike painted "UE"	1433.19
26	12.3	UE, 33 ft N., 18 ft W. and 1.7 ft lower than crossroads, cor. secs. 29, 30, 31 and 32, T. 87 N., R. 41 W., 1 ft concrete tube culvert; chiseled square painted "UE"	1427.10
28	13.3	Eoto, 1 mi N. and 6.5 mi E. of; 174 ft N., 39 ft W. and 10.3 ft higher than T-rd. E. and T-fence W., cor. secs. 31, 32, 5 and 6, Tps. 86 and 87 N., R. 41 W.; on crest of hill; 24 ft N. of N. gate post; 15 ft N. of steel witness sign 1 ft E. of W. right-of-way fence, on 10 ft copper coated rod inside 6 in. concrete tile; standard tablet stamped "27 T 1968 1424"	1423.859
29	13.4	Reference mark, 199 ft S. of tablet, 25 ft S., and 38 ft W. of T-rd. E., E. side power jct. pole, rail spike, painted "RM"	1416.59
31	14.5	UE, 35 ft N., 42 ft E. and 2.2 ft higher than crossroad, +500 ft S. of cor. secs. 5, 6, 7 and 8, T. 86 N., R. 41 W., N. side power pole; rail spike, painted "UE"	1350.34
32	15.6	UE, 30 ft S., 12 ft E. and 0.3 ft lower than center wood deck bridge; near center E $\frac{1}{2}$ sec. 8, T. 86 N., R. 41 W.; SE. abutment; 1 ft E. of rail; copper nail and washer painted "UE"	1229.01
33	16.1	UE, center of T-rd. N., near E. sixteenth cor. sec. 8 and 17, T. 86 N., R. 41 W., painted "UE Centerline"	1212.5
34	16.9	Center of T-rd. S.	1329.04

BATTLE CREEK QUAD. - 183

34	16.9	Reference mark, 300 ft N. of tablet, 20 ft S. and 30 ft E. of T-rd. S.; 3.5 ft concrete tube culvert; chiseled square, painted "RM"	1326.43
35	17.0	Danbury, 2.5 mi N. and 1 mi W. of; 320 ft S., 36 ft E. and 14.7 ft lower than T-rd. S., quarter cor. secs. 9 and 16, T. 86 N., R. 41 W.; 5.5 ft S. of steel witness sign; 1 ft W. of E. right-of-way fence, on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "28 T 1968 1314"	1314.324
36	18.8	UE, center of T-rd. N. (Co. Hwy. "B" W and ESE.), near quarter cor. secs. 16 and 21, T. 86 N., R. 41 W., copper nail and washer, painted "UE Centerline"	1269.2

CHARTER OAK QUAD. - 158

37	19.1	UE, near N. limits of Danbury, center of Co. Hwy. "B" at E.-W. fence, cor. secs. 21, 22, 27 and 28, T. 86 N., R. 41 W., copper nail and washer, painted "UE Centerline"	1182.6
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LINE 2

J. H. Tyndale, 1968; Book CV-2324

BATTLE CREEK QUAD. - 183

2 1	0.0	Battle Creek, 4.0 mi S. and 0.5 mi W. from; T. 86 N., R. 41 W.; near cor. secs. 15, 16, 21 and 22; 53 ft N. and 41 ft W. of crossroads; 1 ft E. of W. right-of-way fence, 13.5 ft N. of fence cor. post, in concrete post; standard tablet stamped "10 WEK 1966"	1481.322
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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 2 (Cont'd)

CHARTER OAK QUAD. - 158

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|---|-----|--|---|---------|
| 2 | 2 | 1.1 | UE, 67 ft S., 32 ft W. and 2.6 ft lower than crossroad, cor. secs. 21, 22, 27 and 28, T. 86 N., R. 40 W., E. side telephone pole; rail spike painted "UE" | 1475.70 |
| 4 | 2.1 | UE, 46 ft N., 22 ft E. and 2.7 ft higher than crossroad, cor. secs. 27, 28, 33 and 34, T. 86 N., R. 40 W.; E. side power pole; rail spike painted "UE" | 1437.14 | |

LINE 3

J. H. Tyndale, 1968; Book CV-2324

QUIMBY QUAD. - 207

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|----|------|--|--|----------|
| 3 | 40 | 9.3 | Holstein, 2 mi N. and 4 mi W. of; 40 ft S., 222 ft W. and 0.7 ft lower than crossroad (Co. "D" E.-W.), cor. secs. 18, 19, 13 and 24, T. 89 N., Rs. 40 and 41 W.; 8 ft ENE. of steel witness sign; 1 ft N. of S. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "7 T 1968 1401" | 1401.564 |
| 41 | 10.4 | UE, 34 ft N., 24 ft W. and 2.4 ft lower than crossroad, cor. secs. 19, 24, 25 and 30, T. 89 N., Rs. 40 and 41 W., 2.5 ft concrete tube culvert; chiseled square painted "UE" | 1416.25 | |

BATTLE CREEK QUAD. - 183

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|----|------|---|----------|
| 42 | 11.4 | UE, (prob. Iowa GS) 20 ft N., 41 ft E. and 1.9 ft lower than crossroad, cor. secs. 30, 31, 25 and 36, T. 89 N., Rs. 40 and 41 W.; 3.5 ft concrete tube culvert; chiseled square, painted "UE" | 1440.78 |
| 43 | 12.5 | Center of T-rd. N. (U.S. Hwy. 20 E.-W.) copper nail and washer; unpainted | 1424.47 |
| 43 | 12.5 | Reference mark, 133 ft NNE. of tablet, 32 ft N. and 77 ft W. of T-rd. N.; 3 ft concrete tube culvert; chiseled square, painted "RMT" | 1419.42 |
| 44 | 12.5 | Holstein, 1 mi S. and 4 mi W. of, 70 ft S., 169 ft W. and 6.6 ft lower than T-rd. N.; S. corrected cor. secs. 31 and 36, T. 89 N., Rs. 40 and 41 W.; (U.S. Hwy. 20 E.-W.); at Hwy. Station #1278; 68 ft W. of large power pole; near E. end 10 ft rd. cut, 20 ft E. of steel witness sign; 1 ft N. of S. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "6 T 1968 1418" | 1417.854 |
| 45 | 13.6 | Center of crossroad (U.S. 20 E.-W.) copper nail | 1352.0 |
| 45 | 13.6 | UE, 250 ft N., 20 ft E. and 11.3 ft lower than crossroad (U.S. Hwy. 20 E.-W.), S. corrected cor. secs. 35 and 36, T. 89 N., R. 41 W.; 10 x 10 ft box culvert, center headwall; chiseled square, painted "UE" | 1340.75 |
| 46 | 14.3 | UE, 174 ft N., 15 ft W. and 3.0 ft higher than T-rd. N. (old Hwy. 20 E.-W.), near center sec. 5, T. 88 N., R. 40 W.; 3 ft concrete tube culvert; chiseled square painted "UE" | 1325.04 |
| 49 | 16.5 | Center of T-rd. S., cor. secs. 4, 5, 8 and 9, T. 88 N., R. 40 W.; unpainted | 1336.9 |
| 49 | 16.5 | Cushing, 0.5 mi S. and 2.0 mi W. from, T. 88 N., R. 41 W.; between NE $\frac{1}{4}$ sec. 8 and NW $\frac{1}{4}$ sec. 9, 35 ft E. of rd. at drive W., 13 ft N. of T-fence E.; 1 ft W. of E. right-of-way fence, in concrete post; standard tablet stamped "6 WEK 1966" | 1336.658 |

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 4

J. H. Tyndale, 1968; Book CV-2324

BATTLE CREEK QUAD. - 183

5 1 0.0 2.2 mi E. along the C. & N.W. Ry. from Holstein, Ida Co., at the W. side of sec. 30, T. 89 N., R. 39 W., 250 ft W. of MP 43, at culvert 1537, and in the top of the SE. cor. of the S. stone headwall; a standard Monelmetal rivet stamped "RV 15 1933" 1367.104

QUIMBY QUAD. - 207

1 0.6 UE, center of crossroad (Co. Hwy. "D" E.-W.), cor. secs. 19, 24, 25 and 30, T. 89 N., Rs. 39 and 40 W.; copper nail and washer, painted "UE" 1412.35

2 1.6 UE, 20 ft S., 24 ft E. and 1.4 ft lower than crossroad, cor. secs. 19, 18, 13 and 24, T. 89 N., Rs. 39 and 40 W.; 10 x 10 ft box culvert; set askew; center headwall; chiseled square, painted "UE" 1353.54

LINE 5

W. E. Knouse, 1966; Book CV-2058

BATTLE CREEK QUAD. - 183

0.0 Cushing, 3.0 mi W. along the C. & N.W. Ry. from, Woodbury Co., 162 yards W. of MP WL 55, at a dirt rd. crossing, 46.7 ft N. of the center of the track, 34 ft E. of the center of the rd., and 4 ft S. of the right-of-way fence; a standard USC&GS disk, stamped "1206.097 T 14 1933" and set in the top of a concrete post 1206.097

1.0 UE F 14 A, T. 89 N., R. 42 W., between NE $\frac{1}{4}$ sec. 3 and NW $\frac{1}{4}$ sec. 2; 46 ft N. and 25 ft E. of RR. crossing; on S. end of concrete pipe culvert; chiseled square 1241.24

2.7 Cushing, about 100 ft W. of the W. end of the C. & N.W. Ry. station at, Woodbury Co., about 290 ft NW. of the NW. cor. of a grain elevator, 43.2 ft N. of the N. rail of the S. side track, and 17.4 ft S. of the S. rail of the main track; a standard USC&GS disk, stamped "1276.100 E 14 1933" and set in the top of a concrete post
NOTE: Previous elev. of 1276.100 could not be reconciled, this elev. by USGS. 1276.367

0.2 UE E 14 A; At Cushing, T. 88 N., R. 42 W., near center sec. 1, at jct. of the main N.-S. street of Cushing and old Hwy. 20, 1.5 ft E. center of crossroads; copper nail and washer 1296.00

0.6 UE E 14 B, T. 88 N., Rs. 41 and 42 W., near quarter cor. secs. 1 and 6, about 300 ft E. of crossroads, 13 ft S. of center of bridge, on S. base of concrete curb of bridge and level with bridge floor; chiseled square 1282.16

1.3 UE E 14 C; T. 88 N., R. 41 W., near quarter cor. secs. 5 and 6; 34 ft S. and 152 ft W. of T-rd. S., on top and center of SW. headwall of box culvert; chiseled square 1302.17

1.7 UE E 14 D; T. 88 N., R. 41 W., near cor. secs. 5, 6, 7 and 8; at center of paved county rd. "M" and E.-W. rd.; chiseled square 1317.48

2.3 UE E 14 E; T. 88 N., R. 41 W.; near quarter cor. secs. 5 and 8; 10 ft S. and 12 ft E. of center of wooden bridge, on top of a 4 in. by 8 in. wooden vertical member of E. wooden abutment; copper nail and washer 1319.82

2.9 Reference Mark #6 WEK; about 75 ft NW. of tablet, 41 ft S. and 11 ft W. of center of wooden bridge, on top of 8 in. post used as a support for SW. wingwall; copper nail and washer 1335.71

2.9 "6 WEK 1966" (Described in Line 3) 1336.658

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 5 (Cont'd)

BATTLE CREEK QUAD. - 183

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| 3.7 | UE 6 A; T. 88 N., R. 41 W., near cor. secs. 8, 9, 16 and 17; 44 ft S. and 32.5 ft W. of crossroads, in E. side of power pole and 0.1 ft above ground; rail spike | 1407.66 |
| 4.5 | UE 6 B; T. 88 N., R. 41 W.; about 0.25 mi S. of quarter cor. secs. 16 and 17; 16.5 ft W. of center of N.-S. rd., on W. end of concrete pipe culvert; chiseled square | 1413.21 |
| 4.8 | UE 6 C; T. 88 N., R. 41 W., near cor. secs. 16, 17, 20 and 21; 27.5 ft N. and 12 ft W. of crossroads, on top W. end corrugated steel culvert; punched hole | 1394.38 |
| 5.4 | UE 6 D; T. 88 N., R. 41 W., near quarter cor. secs. 20 and 21; 25.5 ft N. and 10.5 ft W. of center wooden bridge, on top 8 in. post which re-inforces NW. wingwall; copper nail and washer | 1345.04 |
| 5.8 | Reference Mark #1 for 7 WEK; 43.5 ft NNW. of tablet, 16 ft S. and 29 ft E. of crossroads, on S. end of corrugated steel culvert; punched hole | 1403.04 |
| 5.8 | Cushing, 3.5 mi S. and 2.0 mi E. from, T. 88 N., R. 41 W.; near cor. secs. 20, 21, 28 and 29; 57 ft S. and 39 ft E. of crossroads, 1 ft W. of E. right-of-way fence, 24 ft S. of fence cor. post; in concrete post; standard tablet stamped "7 WEK 1966" | 1410.724 |
| 5.8 | Reference Mark #2 for 7 WEK; 81 ft WNW. of tablet, 38.5 ft S. and 39.5 ft W. of crossroads; in E. side of power pole and about 0.2 ft above ground; rail spike | 1409.62 |
| 6.2 | UE 7 A; T. 88 N., R. 41 W.; near quarter cor. secs. 28 and 29; 134 ft N. and 14.5 ft W. of rd. at E.-W. fence, on top of W. end of concrete pipe culvert; chiseled square | 1455.13 |
| 6.8 | UE 7 B; T. 88 N., R. 41 W.; near cor. secs. 28, 29, 32 and 33; 17 ft N. and 32 ft E. of crossroads, on top of N. end of corrugated steel culvert; punched hole | 1410.71 |
| 7.3 | UE 7 C; T. 88 N., R. 41 W.; near quarter cor. secs. 32 and 33; 39 ft S. and 14 ft W. of rd. at E.-W. fence, on top W. concrete headwall of culvert; chiseled square | 1389.29 |
| 7.8 | UE 7 D; T. 87 and 88 N., R. 41 W.; near cor. secs. 32, 33, 4 and 5; about 300 ft S. of crossroads, 15 ft W. of center of N.-S. rd., on W. end of corrugated steel culvert; punched hole | 1436.11 |
| 8.3 | UE 7 E; T. 87 N., R. 41 W.; near quarter cor. secs. 4 and 5; 132 ft S. and 16 ft E. of rds. at E.-W. fence, on top of E. end of a corrugated steel culvert; punched hole | 1412.51 |
| 8.8 | UE 7 F; T. 87 N., R. 41 W.; near cor. secs. 4, 5, 8 and 9; 20 ft S. and 35 ft E. of crossroads, on top S. end of concrete pipe culvert; chiseled square | 1398.53 |
| 8.9 | Reference Mark No. 2 for USC&GS Triangulation Station BATTLE, 1950. The mark is 39 ft N. of the center of a dirt rd. and 1 ft S. of a right-of-way fence line; the mark projects about 2 in. and the disk is stamped "BATTLE NO. 2 1950" | 1455.140 |
| 8.9 | USC&GS Triangulation Station BATTLE, 1950. The station is located about 3.75 mi N. and 1.5 mi W. of the small town of Battle Creek, on the right-of-way of a dirt rd. it is about 200 ft NE. of a farm home, 39 ft N. of the center of a dirt rd. and 4 ft S. of a right-of-way fence line; the mark projects about 2 in. and the disk is stamped "BATTLE 1950", T. 87 N., R. 41 W., about 0.2 mi E. of cor. secs. 4, 5, 8 and 9 | 1454.984 |
| X 9.0 | Reference Mark No. 1 for USC&GS Triangulation Station BATTLE, 1950. The mark is 40 ft N. of the center of a dirt rd. and 1 ft S. of a right-of-way fence line, the mark projects about 2 in. and the disk is stamped "BATTLE NO. 1 1950" | 1455.44 |

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 5 (Cont'd)

BATTLE CREEK QUAD. - 183

19.8	UE Battle A; T. 87 N., R. 41 W., near quarter cor. secs. 8 and 9; 311 ft N. and 20 ft E. of rd. at fence W., on top of E. end of corrugated steel culvert; punched hole	1341.95
10.2	UE Battle B; T. 87 N., R. 41 W., near cor. secs. 8, 9, 16 and 17; 13 ft S. and 38 ft E. of T-rd. W., in W. side of power pole and 0.1 ft above ground; rail spike	1353.83
10.8	UE Battle C; T. 87 N., R. 41 W.; near quarter cor. secs. 16 and 17; 49 ft N. and 20 ft E. of rd. at field entrance E., on top E. headwall of concrete culvert; chiseled square	1287.30
11.2	UE Battle D; T. 87 N., R. 41 W.; near cor. secs. 16, 17, 20 and 21; 32 ft S. and 19 ft E. of crossroads, on top of E. end of concrete pipe culvert; chiseled square	1253.84
12.1	Reference Mark No. 8 WEK; 26 ft W. of tablet, about 0.1 mi N. of crossroads; 13 ft W. of center of Co. Rd. "M", on top of W. headwall of concrete box culvert; chiseled square	1223.90
12.2	Battle Creek, 1.0 mi N. and 1.0 mi W. from, 9.5 mi S. and 2.0 mi E. from Cushing, T. 87 N., R. 41 W.; in SW $\frac{1}{4}$ of sec. 21; about 0.1 mi N. of crossroads, 13 ft E. of center of Co. Rd. "M"; in center of E. headwall of concrete box culvert; standard tablet stamped "8 WEK 1966"	1224.070
12.8	UE 8 A; T. 87 N., R. 41 W.; in W. central part of sec. 28, 160 ft N. and 15 ft W. of Co. Rd. "M" at field entrance W., on top of W. headwall of concrete box culvert; chiseled square	1218.10
13.5	UE 8 B; T. 87 N., R. 41 W., near quarter cor. secs. 28 and 33; 28 ft S. and 20 ft W. of T-rd. S., on top of W. end of concrete pipe culvert; chiseled square	1204.78
14.3	UE 8741-33SW (1) Maple (by Water Resources 1964). T. 87 N., R. 41 W.; about 0.2 mi N. of quarter cor. secs. 4 and 33; 12.5 ft S. and 17 ft W. of center of bridge which is about 100 ft E. of T-rd. N., on top of SW. curbing of bridge; a State Hwy. Commission plug. Elev. by USGS	1180.30
14.7	UE 8741-33 SE (1) Maple (by Water Resources 1964). T. 87 N., R. 41 W.; about 0.1 mi SW. along Hwy. 175 from quarter cor. secs. 33 and 34; on western end of southern curbing of a bridge over a creek; Iowa Hwy. Commission plug. Elev. by USGS	1187.80
14.9	UE 8 C; T. 87 N., R. 41 W.; near quarter cor. secs. 33 and 34, 138 ft SW. of T-rd. N., on S. headwall of a concrete box culvert; chiseled cross	1186.08
15.4	Reference Mark 9 WEK; 39 ft E. of tablet, 39 ft N. and 93 ft W. of rd. at field entrance N., in S. side of a telephone pole; rail spike	1189.37
15.5	Battle Creek, 1.0 mi S. and 0.5 mi W. from; Tps. 86 and 87 N., R. 41 W.; near cor. secs. 3, 4, 33 and 34; 37 ft N. and 128 ft W. of rd. at field entrance N., 1 ft S. of N. right-of-way fence, on top of rise along N. right-of-way fence, in a concrete post; standard tablet stamped "9 WEK 1966"	1191.804
16.0	UE 9 A; T. 86 N., R. 41 W.; in NE $\frac{1}{4}$ sec. 4; 32 ft N. and 12 ft W. of center of bridge, on NW. wingwall of bridge; chiseled square	1187.19
16.6	UE 9 B; T. 86 N., R. 41 W.; about 0.2 mi S. of center sec. 4; 33 ft S. and 13 ft W. of center of wooden bridge, on top of a reinforcement post for SW. wingwall; copper nail and washer	1201.24

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 5 (Cont'd)

BATTLE CREEK QUAD. - 183

17.1	UE 9 C; T. 86 N., R. 41 W.; about 0.3 mi W. of cor. secs. 3, 4, 9 and 10; 11 ft S. and 41 ft E. of center of bridge, on top of reinforcement post for SE. wingwall; copper nail and washer	1234.25
17.4	UE 9 D; T. 86 N., R. 41 W.; near cor. secs. 3, 4, 9 and 10; 18 ft S. and 32 ft W. of T-rd. S.; on top of S. end of corrugated steel culvert; punched hole	1294.25
17.8	UE 9 E; T. 86 N., R. 41 W.; near quarter cor. secs. 9 and 10; 63 ft N. and 16 ft E. of rd. at E.-W. fence, on E. end of corrugated steel culvert; punched hole	1341.99
18.4	UE 9 F; T. 86 N., R. 41 W.; near cor. of secs. 9, 10, 15 and 16; 15 ft W. of center of N.-S. rd., on top of W. concrete headwall of culvert; chiseled square	1285.83
18.9	UE 9 G; T. 86 N., R. 41 W.; about 300 ft S. of quarter cor. secs. 15 and 16; 18 ft E. of center of N.-S. rd., on E. end of corrugated steel culvert; punched hole	1392.20
19.3	"10 WEK 1966" (Described in Line 2)	1481.322
19.3	Reference Mark 10 WEK; 100 ft S. of tablet, 43 ft S. and 29 ft W. of crossroads, in E. side of power pole; rail spike	1479.36
19.8	UE 10 A; T. 86 N., R. 41 W.; near quarter cor. secs. 15 and 22; 38 ft N. and 49 ft E. of rd. at N.-S. fence, in S. side of a telephone pole; rail spike	1414.77
20.0	UE 10 B; T. 86 N., R. 41 W.; near cor. secs. 14, 15, 22 and 23; 10.5 ft E. of center of crossroads, 6 in. from E. edge of paved rd.; chiseled square	1367.71
20.9	UE 10 C; T. 86 N., R. 41 W.; about 0.1 mi E. of quarter cor. secs. 14 and 23, 14 ft N. of center of E.-W. rd., on top of N. end of concrete pipe culvert; chiseled square	1429.08
21.4	UE 10 D; T. 86 N., R. 41 W.; near cor. secs. 13, 14, 23 and 24; about 300 ft E. of crossroads, 22 ft N. of center of E.-W. rd., on top of E. end of a headwall of a catch basin, chiseled square	1389.16
21.9	UE 10 E; T. 86 N., R. 41 W.; near quarter cor. secs. 13 and 24; 19.5 ft S. and 136 ft E. of rd. at fence N., on S. end of corrugated steel culvert; punched hole	1394.07
22.3	Reference Mark 11 WEK; 73 ft W. of tablet, 34 ft S. and 19 ft W. of crossroads; on W. end of concrete pipe culvert; chiseled square	1403.42
22.4	Battle Creek, 4.0 mi S. and 2.0 mi E. from, T. 86 N., Rs. 40 and 41 W.; near cor. secs. 13, 18, 19 and 24; 41 ft S. and 51 ft E. of crossroads; 17 ft E. of fence cor. post, 1 ft N. of S. right-of-way fence, in a concrete post; a standard tablet stamped "11 WEK 1966"	1411.118
22.9	UE 11 A; T. 86 N., R. 40 W.; near quarter cor. secs. 18 and 19; 20 ft S. of center of E.-W. rd., 6 ft W. of a fence S., on S. end of a concrete pipe culvert; chiseled square	1389.30
23.5	UE 11 B; T. 86 N., R. 40 W.; about 800 ft E. of cor. secs. 17, 18, 19 and 20; about 300 ft W. of jet. of E.-W. rd. and Co. Rd. "M", 6 in. E. of E. end of S. rail of bridge, 9 ft S. and 16 ft E. of center of bridge, on S. end of E. wooden abutment of bridge; copper nail and washer	1303.04

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 5 (Cont'd)

BATTLE CREEK QUAD. - 183

- 23.8 UE 11 C; T. 86 N., R. 40 W.; near quarter cor. secs. 17 and 20; about 200 ft E. of rd. at fence N., 10 ft S. center of bridge, on top and center of S. concrete rail of bridge; chiseled square 1301.80
- 24.3 UE 11 D; T. 86 N., R. 40 W.; near cor. secs. 16, 17, 20 and 21; 33 ft S. and 42 ft W. of crossroads; in N. side of telephone pole; rail spike 1385.70
- 24.7 UE 11 E; T. 86 N., R. 40 W.; about 0.1 mi W. of quarter cor. secs. 16 and 21; 20 ft N. of center of E.-W. rd., on top of W. end of N. headwall of concrete box culvert; chiseled square 1342.86
- 25.3 Reference Mark 12 WEK; 76 ft W. of tablet, 59 ft S. and 36 ft W. of crossroads; in NE. side of telephone pole and 0.5 ft above ground; rail spike 1397.03

IDA GROVE QUAD. - 182

- 25.3 Ida Grove, 6.0 mi S. and 1.0 mi W. from, 4.0 mi S. and 5.0 mi E. from Battle Creek; T. 86 N., R. 40 W.; near cor. secs. 15, 16, 21 and 22; 1 ft W. of E. right-of-way fence, 59 ft S. and 40 ft E. of crossroads; in a concrete post; a standard tablet stamped "12 WEK 1966" 1396.755
- 25.8 UE 12 A; T. 86 N., R. 40 W.; about 300 ft W. of quarter cor. secs. 15 and 22; 41 ft E. and 16 ft S. of rd. at drive S., on top of S. headwall of box culvert; chiseled square 1329.33

LINE 6

W. E. Knouse, 1966; Book CV-2058

IDA GROVE QUAD. - 182

- 0.0 Galva, 4.3 mi SW. along the C. & NW. Ry. from, Ida Co., 150 yards SE. of the E. end of bridge 1528, at the crossing of the rd. along the E. line of sec. 32, T. 89 N., R. 39 W.; 46.8 ft NE. of the center of the track, 36 ft W. of the center of the rd. and 6.3 ft S. of a power transmission line pole; standard USC&GS disk stamped "1283.252 B 14 1933" and set in the top of a concrete post. 1283.252
- 0.7 UE B 14 A; Tps. 88 and 89 N., Rs. 39 and 40 W. (two ranges due to offset because of correction line); near cor. of sec. 32 and 33, and quarter cor. of sec. 2; 44 ft S. and 30 ft E. of crossroads (U.S. Hwy. 20 with gravel rd.), on top of E. end of a cutaway end concrete culvert; chiseled square 1327.76
- 1.2 UE B 14 B; Tps. 88 and 89 N., Rs. 39 and 40 W. (two ranges due to offset because of correction line), near cor. secs. 2 and 3 and quarter cor. sec. 32; 50.5 ft S. and 32 ft W. of T-rd. S., on top of W. end of cutaway end concrete culvert; chiseled cross 1368.52
- 1.6 UE B 14 C; Tps. 88 and 89 N., Rs. 39 and 40 W. (correction line - 2 ranges - ranges staggered); near cor. secs. 31 and 32, and quarter cor. of sec. 3, 73 ft S. and 37 ft E. of T-rd. N., 3 ft NE. of a power pole, on top of a small square hwy. marker and about 1 in. above top of marker; reinforcement rod top (set vertically in post) 1401.72
- 2.2 UE B 14 D; Tps. 88 and 89 N., Rs. 39 and 40 W. (correction line); near cor. secs. 3 and 4, and quarter cor. sec. 31; 47 ft S. and 27 ft W. of T-rd. S., on top and center of W. headwall of concrete box culvert; Iowa Hwy. Commission plug 1379.64
- 3.0 UE B 14 E; T. 88 N., R. 40 W.; about 0.25 mi S. of quarter cor. secs. 3 and 4; 94 ft N. and 15.5 ft W. of rd. at drive W., on top of W. headwall of concrete culvert; chiseled square 1342.88

FEET

LINE 6 (Cont'd)

IDA GROVE QUAD. - 182

- 3.4 Galva, 3.0 mi W. and 3.5 mi S. from; 7.0 mi N. and 1.0 mi W. from Ida Grove, T. 88 N., R. 40 W.; near cor. secs. 3, 4, 9 and 10; 30 ft N. and 55 ft W. of crossroads; 1 ft S. of N. right-of-way fence, in concrete post; standard tablet stamped "15 WEK 1966" 1410.757
- 3.4 Reference mark; 61.5 ft SSE. of tablet, 31.5 ft S. and 48 ft W. of crossroads, on top of an 18 in. stump of a tree; copper nail and washer 1413.19
- 4.0 UE 15 A; T. 88 N., R. 40 W.; near quarter cor. secs. 9 and 10; 148 ft S. and 14 ft W. of rd. at E.-W. fence, on top and center of W. concrete headwall of culvert; chiseled square 1343.57
- 4.5 UE 15 B; T. 88 N., R. 40 W.; about 350 ft S. of cor. secs. 9, 10, 15 and 16; 18 ft W. of center of N.-S. rd., on top of W. end of concrete pipe culvert; chiseled square 1399.88
- 5.1 UE 15 C; T. 88 N., R. 40 W.; near quarter cor. secs. 15 and 16; 5 ft S. and 28 ft E. of rd. at fence E., on top of N. end of corrugated steel culvert; chiseled cross 1410.85
- 5.4 UE 15 D; T. 88 N., R. 40 W.; near cor. secs. 15, 16, 21 and 22; 24.5 ft N. and 18.5 ft E. of crossroads, on top of E. end of corrugated steel culvert; chiseled cross 1349.91
- 6.0 UE 15 E; T. 88 N., R. 40 W.; near quarter cor. secs. 21 and 22; about 200 ft S. of rd. at E.-W. fence, 18 ft W. of center of rd., on top of W. end of concrete pipe culvert chiseled square 1372.49
- 6.5 Galva, 6.0 mi S. and 3.5 mi W. from; 4.0 mi N. and 1.0 mi W. from Ida Grove, T. 88 N., R. 40 W.; near cor. secs. 21, 22, 27 and 28; 67 ft S. and 35 ft E. of crossroads, 1 ft W. of E. right-of-way fence; in concrete post; standard tablet stamped "16 WEK 1966" 1416.611
- 6.5 Reference mark, 28 ft S. of tablet, 95 ft S. and 36 ft E. of crossroads; in W. side of a power pole; rail spike 1420.68
- 6.9 UE 16 A; T. 88 N., R. 40 W.; near quarter cor. secs. 27 and 28; 19 ft W. of center of rd., on N. end of W. headwall of a catch basin culvert; chiseled square 1342.81
- 7.4 UE 16 B; T. 88 N., R. 40 W.; near cor. secs. 27, 28, 33 and 34; 135 ft N. and 25 ft E. of crossroads, 18 ft S. and 25 ft E. of drive to electric power station, on top of S. end of concrete pipe culvert; chiseled square 1327.23
- 7.9 UE 16 C; T. 88 N., R. 40 W.; near quarter cor. secs. 33 and 34; about 300 ft N. of rd. at E.-W. fence; 17 ft W. of center of rd., on top of W. end of corrugated steel culvert; chiseled cross 1333.22
- 8.4 UE 16 D; Tps. 87 and 88 N., R. 40 W.; near cor. secs. 3, 4, 33 and 34; 18.5 ft N. and 24 ft W. of T-rd. W., on top of N. end of corrugated steel culvert; chiseled square 1421.26
- 9.0 UE 16 E; T. 87 N., R. 40 W.; near quarter cor. secs. 3 and 4; 6 ft S. and 13.5 ft E. of rd. at E.-W. fence, on top of E. headwall of concrete box culvert; chiseled square 1354.26
- 9.7 Reference Mark; 43 ft NW. of tablet, 44 ft NE. of center of rd., in SW. side of telephone pole; rail spike 1427.56

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 6 (Cont'd)

IDA GROVE QUAD. - 182

- 9.7 Ida Grove, 1.0 mi N. and 0.5 mi W. from; T. 87 N., R. 40 W.; in NW $\frac{1}{4}$ sec. 10, about 400 ft SE. along right-of-way fence from T-fence E., 1.5 ft W. of E. right-of-way fence, 46.5 ft NE. of center of rd., in a concrete post; standard tablet stamped "17 WEK 1966" 1427.244
- 10.1 UE 17 A; T. 87 N., R. 40 W.; near center sec. 10, 21 ft N. of center of drive to electric power station, 46 ft E. of center of co. rd., on top N. end of a concrete pipe culvert; chiseled square 1349.43
- 10.7 UE 17 B; T. 87 N., R. 40 W.; in N. central portion of sec. 15, 24 ft NW. of center of rd., 25 ft NE. of field drive SE., on top of NW. end of concrete culvert; chiseled square 1279.87
- 11.0 UE 17 C; T. 87 N., R. 40 W.; in NW $\frac{1}{4}$ sec. 15, (jct. of gravel rd. N. and State Hwy. 175 and U.S. Hwy. 59), 69 ft N. and 31 ft E. of T-rd. N.; on E. end of concrete pipe culvert; chiseled square 1241.96
- 11.4 UE 17 D; T. 87 N., R. 40 W.; in E. central portion of sec. 15; about 300 ft SE. of Hwy. 59 at T-rd. SE. (at NW. edge Ida Grove), on top of the N. end of the W. concrete rail at bridge; chiseled cross (bridge over Maple River) 1224.53
- 11.4 UE 8740-15 NE (2) Maple; 35 ft S. of UE 17 D; on same bridge rail - chiseled square. Water Resource Description: about 200 yards downstream from Hwy. 175 and 59; bridge over Maple River at Ida Grove, at a street bridge, chiseled square on the downstream guard rail, 25 ft streamward from the right downstream end of the bridge, water resource elevation 1964 1223.50 Elev. by USGS 1223.81
- 12.1 Reference mark, station 20; 60 ft E. of tablet, 26 ft N. and 23 ft E. of crossroads, in concrete post; brass cap with cross on top 1234.76
- 12.1 At Ida Grove, T. 87 N., R. 40 W.; near cor. secs. 14, 15, 22 and 23, at jct. of old Hwy. 59 and 5th St. (SW. portion of town), 30 ft N. and 37 ft W. of crossroads, in a concrete post; USC&GS and state mark stamped "STATION 20" Elev. by USGS 1235.924
- 12.6 UE Station 20 A; T. 87 N., R. 40 W.; near quarter cor. secs. 22 and 23, 72 ft S. and 30 ft W. of rd. at fence W., on N. end of concrete pipe culvert (under field entrance W.); chiseled square 1265.89
- 13.1 UE Station 20 B; T. 87 N., R. 40 W.; near cor. secs. 22, 23, 26 and 27, at T-rd. W., about 3 in. W. of center of N.-S. rd.; chiseled square 1373.71
- 13.6 UE Station 20 C; T. 87 N., R. 40 W.; near quarter cor. secs. 26 and 27; 87 ft N. and 25 ft E. of rd. at E.-W. fence, on top of E. end of corrugated steel culvert; chiseled cross 1337.41
- 14.1 UE Station 20 D; T. 87 N., R. 40 W.; near cor. secs. 26, 27, 34 and 35; 29 ft N. and 22 ft E. of crossroads, on top of E. end of corrugated steel culvert; chiseled cross 1335.89
- 14.6 UE Station 20 E; T. 87 N., R. 40 W.; about 0.2 mi S. quarter cor. secs. 27 and 34; 30 ft N. and 7 ft W. of rd. at field entrance N., 30 ft N. and 144 ft E. of rd. at N.-S. fence and also N.-S. power line; on top of W. end of corrugated steel culvert; chiseled square 1341.64
- 15.1 Reference mark; about 94 ft NNE. of tablet, 32 ft N. and 30 ft W. of crossroads; in S. side of telephone pole; rail spike 1351.41
- 15.1 Ida Grove, 2.0 mi S. and 1.0 mi W. from; T. 87 N., R. 40 W.; near cor. secs. 27, 28, 33 and 34; 61 ft S. and 36 ft W. of crossroads; 20 ft S. of fence cor. post; 1.5 ft E. of W. right-of-way fence, in concrete post; standard tablet stamped "18 WEK 1966" 1349.789

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BATTLE CREEK QUADRANGLE
183 - IOWA

FEET

LINE 6 (Cont'd)

IDA GROVE QUAD. - 182

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| 15.6 | UE 18 A; T. 87 N., R. 40 W.; near quarter cor. secs. 33 and 34; 146 ft S. and 17 ft W. of rd. at fence E., on top of W. end of corrugated steel culvert; chiseled cross | 1385.80 |
| 16.1 | UE 18 B; Tps. 86 and 87 N., R. 40 W.; near cor. secs. 3, 4, 33 and 34; 187 ft S. and 24 ft W. of crossroads, on top and center of W. headwall of concrete box culvert; chiseled square | 1400.27 |
| 16.6 | UE 18 C; T. 86 N., R. 40 W.; near quarter cor. secs. 3 and 4; 105 ft S. and 14 ft E. of rd. at fence E.; on E. end of corrugated steel culvert; chiseled cross | 1435.22 |
| 17.1 | Reference mark; about 58 ft NNW. of tablet, 17 ft S. and 28 ft W. of crossroads, on S. end of corrugated steel culvert; chiseled cross | 1452.72 |
| 17.1 | Ida Grove, 4.0 mi S. and 1.0 mi W. from; T. 86 N., R. 40 W.; near cor. secs. 3, 4, 9 and 10; 74.5 ft S. and 35 ft W. of crossroads; 33 ft S. of fence cor., 24 ft S. and 35 ft W. of rd. at field entrance W., in a concrete post; standard tablet stamped "19 WEK 1966" | 1454.349 |
| 17.8 | UE 19 A; T. 86 N., R. 40 W.; near quarter cor. secs. 9 and 10; 10 ft N. and 18 ft W. of rd. at field entrance W.; 21 ft N. and 18 ft W. of rd. at fence W., on top of N. end of corrugated steel culvert; chiseled cross | 1474.49 |
| 18.1 | UE 19 B; T. 86 N., R. 40 W.; near cor. secs. 9, 10, 15 and 16, 17 ft N. and 28 ft E. of corrugated steel culvert; chiseled cross | 1445.46 |
| 18.6 | UE 19 C; T. 86 N., R. 40 W.; near quarter cor. secs. 15 and 16; 87 ft S. and 14 ft W. of rd. at fence W., on top of W. end of corrugated steel culvert; chiseled square | 1387.96 |
| 19.1 | "BM 12 WEK" (Described in Line 5) | 1396.755 |

LINE 7

W. E. Knouse, 1966; Book CV-2058

CORRECTIONVILLE QUAD. - 184

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| 0.0 | Correctionville, Woodbury Co., at the E. edge of; about 0.25 mi SE. along the C. & N.W. Ry. from the station, at a street crossing, 47.2 ft NE. of the center of the track, 37 ft E. of the center of the street, and 12 ft S. of a well; a standard USC&GS disk stamped "1142.816 G 14 1933" and set in the top of a concrete post | 1142.816 |
| 1.6 | UE G 14 A; T. 88 N., R. 42 W., between NE $\frac{1}{4}$ of sec. 3 and NW $\frac{1}{4}$ of sec. 2, 67 ft S. and 31 ft E. of RR. crossing, in SW. side of fence post; rail spike | 1179.59 |

BATTLE CREEK QUAD. - 183

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| 2.6 | Cushing, 3.0 mi W. along the C. & N.W. Ry. from, Woodbury Co., 162 yards W. of the MP WL 55, at a dirt rd. crossing, 46.7 ft N. of the center of the track, 34 ft E. of the center of the rd., and 4 ft S. of the right-of-way fence; a standard USC&GS disk stamped "1206.097 F 14 1933" and set in the top of a concrete post | 1206.097 |
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