

31-

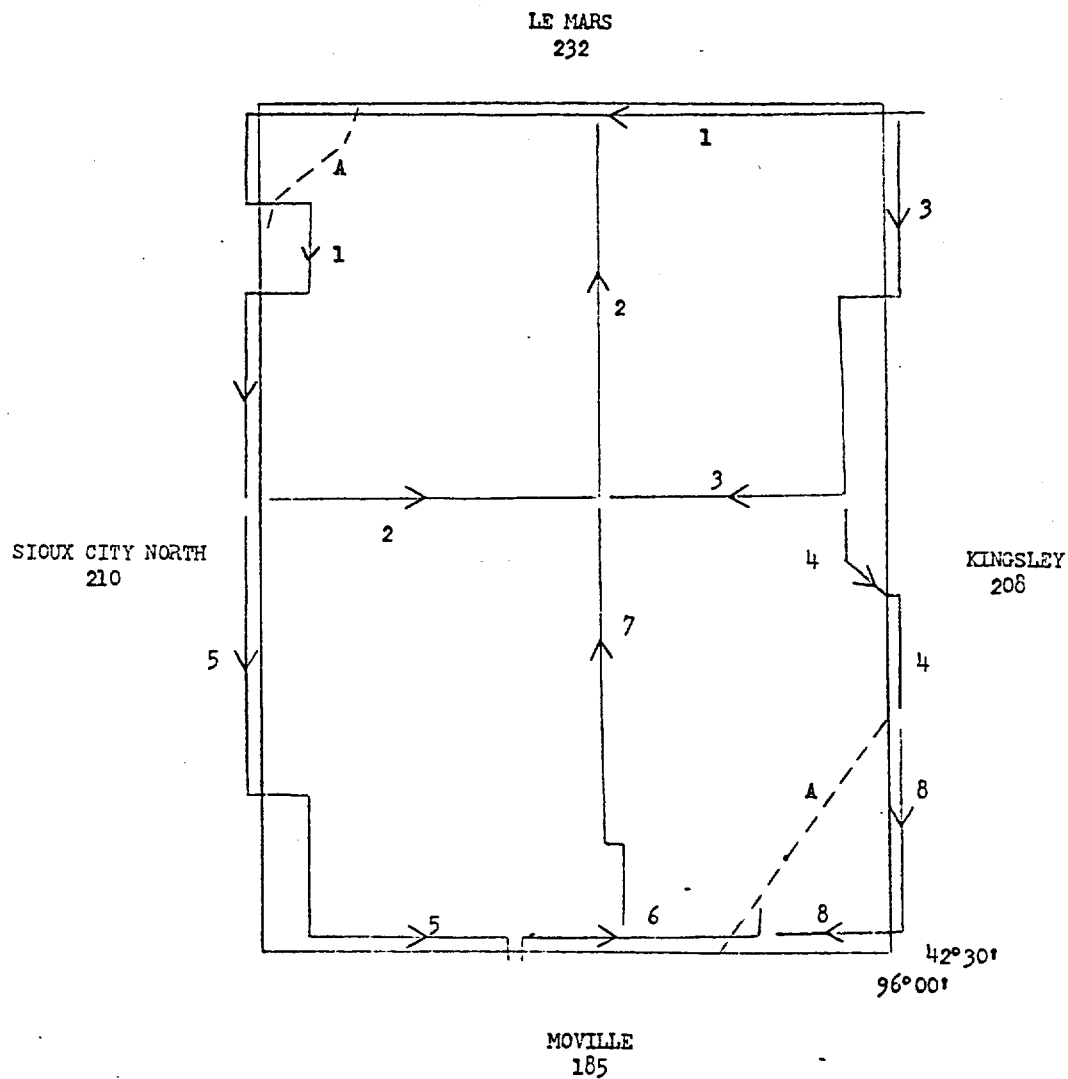
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELING
SEA LEVEL DATUM OF 1929

COUNTY:
Plymouth

Edition of 9/18/69
PR: JNF/FR/mk

UNION CENTER QUADRANGLE
209 IOWA
N4230-W9600/15
DIAGRAM NK 14-6
SIOUX CITY



USC&GS VERTICAL CONTROL DATA

A. Quadrangle 420961

209 A

FEET

LINE 1

W. E. Veatch, 1957; Book CV-864

LE MARS QUAD. - 232

- | | |
|---|---------|
| 4.7 T. 92 N., R. 44 W., at cor. secs. 23, 24, 25 and 26, 16 ft. N., 32 ft. W. and 2.2 ft. lower than center of crossroads, on the N. end of a 24-in. steel pipe culvert; a punched hole | 1409.5 |
| 5.4 T. 92 N., R. 44 W., near quarter corner between secs. 25 and 26, in center of wooden bridge over creek; a copper nail and washer (6.3 ft. above bottom of drain) | 1381.93 |

UNION CENTER QUAD. - 209

- | | |
|---|----------|
| 5.8 Remsen, 4.5 mi. S. and 1.5 mi. W. of, T. 92 N., R. 44 W., 347 ft. S., 32 ft. W. and 7.8 ft. higher than center of crossroads, at approx. corner of sections 25, 26, 35 and 36, 311 ft. S. from corner of fences, (S. and W.) 1 ft. S. and 4 ft. E. of power pole, 2 ft. E. of fence line; in a concrete post, a standard tablet stamped "27 WHV 1957 1434"
(Reported not found 11/62 RE4) | 1433.812 |
| 5.8 Reference mark, 313 ft. N. of tablet, 34 ft. S. and 18 ft. W. from center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole | 1425.59 |
| 8.8 T. 92 N., R. 44 W., at cor. secs. 28, 29, 32 and 33, 34 ft. S., 14 ft. E. and 2.5 ft. lower than center of crossroads, in center of E. headwall of concrete culvert; a chiseled square | 1404.76 |
| 9.9 Le Mars, 3.0 mi. S. and 4.0 mi. E. from, 5.0 mi. S. and 1.0 mi. W. from Oyens, T. 92 N., R. 44 W., 33 ft. N., 159 ft. W. and 1.2 ft. higher than center of crossroads, at approx. cor. of secs. 29, 30, 31 and 32, 2 ft. S. of power pole; in a concrete post, a standard tablet stamped "28 WHV 1957" | 1352.361 |
| 9.9 Reference mark, 308 ft. SE. of tablet, 19 ft. S., 146 ft. E. from center of crossroads, in center of the S. headwall of concrete culvert; a chiseled square | 1348.14 |
| 10.9 "UE 28 B", 1.0 mi. W. of tablet, along County Road "A", T. 92 N., Rs. 44 and 45 W., at approximate corner secs. 25, 30, 31 and 36, 28 ft. N., 17 ft. W. and 1.2 ft. lower than the centerline of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square | 1353.42 |
| 11.8 Le Mars, 3.0 mi. S. and 2.0 mi. E. from, 2.0 mi. E. along County Road "A", from intersection of County Road "P", T. 92 N., R. 45 W., 33 ft. N., 206 ft. E. and 3.0 ft. lower than center of crossroads, at approx. cor. of secs. 25, 26, 35 and 36, 173 ft. E. from fence corner at fences N. and E., 1 ft. S. of fence line, 2 ft. W. of telephone pole; in a concrete post; a standard tablet stamped "29 WHV 1957 1277" | 1276.979 |
| 11.8 Reference mark, 185 ft. W. of tablet, 28 ft. N. and 21 ft. E. from center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole | 1277.27 |
| 12.9 "UE 29 B", 1.0 mi. W. of tablet, along County Road "A", T. 92 N., R. 45 W., at cor. of secs. 26, 27, 34 and 35, 26 ft. N., 21 ft. W. and 1.2 ft. lower than center of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square | 1297.59 |
| 13.8 "UE 29 D", 2.0 mi. W. of tablet, along County Road "A", T. 92 N., R. 45 W., at cor. of secs. 27, 28, 33 and 34, 18 ft. N., 154 ft. E. and 1.7 ft. lower than center of crossroads, (intersection of County Roads "A" and "P"), in center of N. headwall of concrete box culvert, a chiseled square | 1256.15 |
| 14.9 Le Mars, 2.0 mi. S. and 1.0 mi. W. from, 1.7 mi. E. from intersection of County Road "A" with U. S. Highway 75, T. 92 N., R. 45 W., 33 ft. N., 355 ft. W. and 7.8 ft. higher than center of crossroads, at approx. corner of secs. 28, 29, 32 and 33, about 485 ft. NE. from the NE. corner of a large two story farmhouse, 3 ft. E. of power pole, 1 ft. S. of fence line; in a concrete post; a standard tablet stamped "30 WHV 1957 1315" | 1315.335 |

FEET

LINE 1 (Cont'd)

UNION CENTER QUAD. - 209

- 14.8 Reference mark, 355 ft. E. of tablet, 32 ft. N., 32 ft. W. from center of crossroads, a RR. spike in S. side of a 15-in. power pole, projecting 6 in. above ground 1307.76
- 15.9 "UE 30 B", 1.0 mi. W. of tablet, along County Road "A", T. 92 N., R. 45 W., at corner of secs. 29, 30, 31 and 32, 25 ft. N., 31 ft. E. and 1.1 ft. higher than centerline of crossroads, in the S. side of a power pole, a RR. spike 1232.82
- 16.6 "UE 30 C", 1.7 mi. W. of tablet, along County Road "A", 100 ft. E. from intersection of U. S. Highway 75, top of the W. rail at center of E.-W. section-line rd. crossing the Chicago, St. Paul, Minneapolis and Omaha Railway 1191.0
- 16.9 Le Mars, 3.7 mi. S. along U. S. Highway 75, from intersection with State Highway 5 and 3, thence 0.2 mi. W. along County Highway "A", 500 ft. NW. from two-story farmhouse, T. 92 N., Rs. 45 and 46 W., 29 ft. S., 453 ft. W. and 16.8 ft. higher than center of rd., at T-rd. N., at approx. corner of secs. 25, 30, 31 and 36, 2 ft. N., 2 ft. W. of power pole and 2 ft. N. of fence line; in a concrete post; standard tablet stamped "31 WHV 1957 1228" 1228.224
- 16.9 Reference mark, 435 ft. NE. of tablet, 27 ft. N., 18 ft. W. from centerline of rd. at T-rd. S., on the W. end of a 24-in. steel pipe culvert, a punched hole 1212.25
- 17.8 "UE 31 B", 0.9 mi. W. of tablet along County Road "A", T. 92 N., R. 46 W., at cor. of secs. 25, 26, 35 and 36, 54 ft. S., 30 ft. W. and 5.7 ft. lower than center of crossroads, a RR. spike in N. side of power pole, projecting 6 in. above ground 1229.53
- 18.4 "UE 31 C", 1.5 mi. W. of tablet along County Road "A", top of the E. rail at center of E.-W. section-line rd. crossing The Great Northern Railroad 1187.8

SIOUX CITY NORTH QUAD. - 210

- 18.8 Le Mars, 3.7 mi. S. along U. S. Highway 75, from the intersection with State Highway 5 and 3, thence 2.2 mi. W. along County Road "A", T. 92 N., R. 46 W., 34 ft. N., 185 ft. E. and 4.9 ft. lower than center of rd. at T-rd. S., at approx. cor. of secs. 26, 27, 34 and 35, about 0.1 mi. W. from center of section-line rd. crossing the Chicago, North Western Railroad, 2 ft. W. from telephone pole, 1 ft. S. of fence line; in a concrete post, a standard tablet stamped "32 WHV 1957 1203" (Reported destroyed 6/60 NHV) 1203.285
- 18.8 Reference mark, 202 ft. W. of tablet, 29 ft. N., 17 ft. W. from center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole 1204.22
- 20.5 "UE 32 B", 1.7 mi. S. of tablet, along County Road "A", at the N. edge of the city limits at Merrill, 9 ft. N., 21 ft. W. and 0.4 ft. lower than center of rd. at T-rd. W., on the N. end of a 24-in. steel pipe culvert, a punched hole (Reported destroyed) 1202.9
- 21.1 "UE 32 C", 2.4 mi. S. of tablet, along County Road "A", top of E. rail at center of E.-W. section-line rd. crossing the Chicago, St. Paul, Minneapolis and Omaha Railway 1175.1

UNION CENTER QUAD. - 209

- 21.5 Merrill, 0.4 mi. E. of, along County Highway "A", from intersection with U. S. Highway 75, at E. end of concrete bridge over Floyd River, (0.9 ft. higher than center of bridge), 11 ft. S. from centerline of Highway, on the SE. corner of the retaining wall, a standard tablet stamped "33 WHV 1957 1179" 1179.265
- 21.5 Reference mark, 293 ft. W. of tablet, at the W. end of concrete bridge over Floyd River, on the S. end of the W. concrete abutment; about 4.0 ft. lower than center of highway; a chiseled square 1175.32
- 21.8 "UE 33 A", 0.3 mi. E. of tablet, along black top rd., centerline of highway at T-rd. S., on top of $\frac{1}{2}$ in. iron rod, flush with rd. 1172.76

FEET

LINE 1 (Cont'd)

UNION CENTER QUAD. - 209

- 23.8 "UE 33 D", 0.3 mi. E. along black top rd., thence 2.0 mi. S. along gravel rd. from tablet, T. 91 N., R. 46 W., at cor. of secs. 13, 14, 23 and 24, 22 ft. N., 19 ft. W. and 2.9 ft. lower than center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole 1202.8
- 24.5 "UE 33 E", 0.3 mi. E. along black top rd., thence 2.0 mi. S. and 0.8 mi. W. along gravel rd. from tablet, T. 91 N., R. 46 W., near quarter corner between secs. 14 and 23, 33 ft. N., 33 ft. W. and 3.1 ft. lower than center of rd. at T-rd. N. and fence line W., a RR. spike in S. side of power pole, projecting 6 in. above ground 1166.36

SIOUX CITY NORTH QUAD. - 210

- 25.3 Merrill, 2.6 mi. S. of, 4.0 mi. N. and 2.0 mi. E. of Hinton, T. 91 N., R. 46 W., 0.3 mi. N. from cor. of secs. 22, 23, 26 and 27, 500 ft. SW. and 0.5 ft. higher than center of concrete bridge over creek, 548 ft. SW. from private driveway E. to farmhouse, 28 ft. W. from centerline of rd. at angle in rd. S. and NE., 2 ft. E. of power pole and fence line, in a concrete post; standard tablet stamped "34 WHV 1957 1168" 1168.599
- 25.3 Reference mark, 500 ft. NE. of tablet, 10 ft. S. and 1.8 ft. higher than center of bridge over creek, in center of W. headway of concrete culvert, a chiseled square (6.1 ft. above bottom of drain) 1166.32
- 25.6 "UE 34 A", 0.3 mi. S. of tablet, along gravel rd., T. 91 N., R. 46 W., at cor. of secs. 22, 23, 26 and 27, 1 ft. N. and 33 ft. W. and 0.2 ft. lower than centerline of rd. opposite cross fences, a RR. spike in E. side of power pole, projecting 1 ft. above ground 1171.17
- 26.6 "UE 34 C", 1.3 mi. S. of tablet, along gravel rd., T. 91 N., R. 46 W., at cor. of secs. 26, 27, 34 and 35, 33 ft. S., 33 ft. W. and 4.7 ft. lower than center of crossroads, a RR. spike in E. side of fence corner post, projecting 6 in. above ground 1230.14
- 27.6 "UE 34 E", 2.3 mi. S. of tablet, along gravel rd., Tps. 90 and 91 N., R. 46 W., at cor. secs. 2, 3, 34 and 35, 28 ft. S., 18 ft. E. and 3.0 ft. lower than center of crossroads, on the E. end of a 24-in. steel pipe culvert, a punched hole 1237.1
- 28.1 "UE 34 F", 2.8 mi. S. of tablet, along gravel rd., T. 90 N., R. 46 W., near quarter corner between secs. 2 and 3, center of a small wooden bridge over creek, (6.2 ft. above bottom of drain), a copper nail and washer 1173.27
- 28.8 Hinton, 2.5 mi. NE. from along County Highway "L", from intersection with U. S. Highway 75, about 0.2 mi. E. and 0.1 mi. S. from center schoolhouse, T. 90 N., R. 46 W., 586 ft. S., 36 ft. W. and 28.9 ft. higher than center of County Highway "L" at crossroads, at approx. cor. of secs. 2, 3, 10 and 11, 462 ft. N., NE. of NE. cor. of red granary, 45 ft. S. and 36 ft. W. of centerline of N.-S. rd., at field rd. SW., 29 ft. S. of center of wire gate, 3 ft. N. of power pole and under fence line, in a concrete post, a standard tablet stamped "32 EV 1957 1249" 1248.494

LINE 2

W. H. Veatch, 1957; Book CV-664

SIOUX CITY NORTH QUAD. - 210

- 0.0 "32 EV 1957 1249" (Described in Line 1) 1248.494

UNION CENTER QUAD. - 209

- 1.1 "UE 32 B", 1.0 mi. E. of tablet, along County Highway "L", T. 90 N., R. 46 W., at cor. of secs. 1, 2, 11 and 12, 24 ft. S., 16 ft. E. and 0.7 ft. lower than center of highway at T-rd. S., on the E. end of a 24-in. steel pipe culvert; a punched hole 1277.3

FEET

LINE 2 (Cont'd)

UNION CENTER QUAD. - 209

- | | |
|---|----------|
| 2.1 'UE 32 D', 2.0 mi. E. of tablet, along County Highway 'L', T. 90 N., Rs. 45 and 46 W., at cor. of secs. 1, 6, 7 and 12, 20 ft. S., 17 ft. W. and 1.8 ft. lower than center of hwy., at T-rd. N., on the S. end of a 24-in. steel pipe culvert, a punched hole | 1343.2 |
| 3.1 'UE 32 F', 3.0 mi. E. of tablet, along County Highway 'L', T. 90 N., R. 45 W., at cor. of secs. 5, 6, 7 and 8, 32 ft. N., 29 ft. E. and 1.3 ft. lower than center of crossroads, a RR. spike in S. side of power pole, projecting 6 in. above ground | 1295.23 |
| 3.8 Hinton, 6.2 mi. E. of, along County Highway 'L', from the intersection of U. S. Highway 75, T. 90 N., R. 45 W., about 0.25 mi. E. from quarter corner between secs. 5 and 8, 2.0 mi. S. and 1.25 mi. W. from Neptune, 32 ft. S., 476 ft. E. and 4.7 ft. lower than center of concrete bridge over Whiskey Creek, 32 ft. S., 8 ft. E. and 4.2 ft. lower than center of highway opposite fence line S., 1 ft. N. and 8 ft. E. from fence corner post, at angle S. and E., 37 ft. E. of power pole, in a concrete post, a standard tablet stamped "35 WHV 1957 1266" | 1266.083 |
| 3.7 Reference mark, 476 ft. W. of tablet, 12 ft. S. from center of bridge over creek, in center of the S. concrete headwall, a chiseled square | 1271.40 |
| 4.1 'UE 35 A', 0.25 mi. E. of tablet, along County Highway 'L', T. 90 N., R. 45 W., at cor. of secs. 4, 5, 8 and 9, 24 ft. S., 12 ft. W. and 2.4 ft. lower than center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole | 1289.4 |
| 5.1 'UE 35 C', 1.2 mi. E. of tablet, along County Highway 'L', T. 90 N., R. 45 W., at cor. of secs. 3, 4, 9 and 10, 56 ft. N., 58 ft. E. and 0.3 ft. lower than center of crossroad, (at the intersection of County Highways 'L' and 'P'), a RR. spike in S. side of power pole, projecting 6 in. above ground | 1368.21 |
| 6.1 'UE 35 E', 2.2 mi. E. of tablet, along County Road 'L', T. 90 N., R. 45 W., at cor. of secs. 2, 3, 10 and 11, 18 ft. S., 42 ft. W. and 3.9 ft. lower than center of crossroads, in center of S. headwall of concrete culvert; a chiseled square | 1378.59 |
| 7.0 Hinton, 9.4 mi. E. of, along County Highway 'L', from intersection with U. S. Highway 75, 2.0 mi. S. and 2.0 mi. E. of Neptune, T. 90 N., R. 45 W., 32 ft. S., 408 ft. W. and 13.3 ft. higher than center of crossroads, at approx. corner of secs. 1, 2, 11 and 12, 2.0 mi. E. along County Highway 'L', from intersection with County Highway 'P', 1 ft. S. and 4 ft. E. of power pole, 1 ft. N. of fence line, in a concrete post, a standard tablet stamped "36 WHV 1957 1366" | 1366.416 |
| 7.0 Reference mark, 389 ft. E. of tablet, 33 ft. S. and 19 ft. W. from center of crossroads, on the W. end of a 24-in. steel pipe culvert, a punched hole | 1349.3 |
| 8.1 'UE 36 B', 1.0 mi. N. of tablet, along gravel rd., Tps. 90 and 91 N., R. 45 W., at cor. of secs. 1, 2, 35 and 36, 28 ft. N., 18 ft. E. and 5.5 ft. lower than center of crossroads, on the E. end of a 30-in. steel pipe culvert; a punched hole | 1333.9 |
| 9.1 'UE 36 D', 2.0 mi. N. of tablet, along gravel rd., T. 91 N., R. 45 W., at cor. of secs. 25, 26, 35 and 36, 33 ft. S., 34 ft. E. and 2.6 ft. lower than center of crossroads; a RR. spike in E. side of power pole, projecting 6-in. above ground | 1393.15 |
| 10.2 Neptune, 1.0 mi. N. and 2.0 mi. E. from, T. 91 N., R. 45 W., 317 ft. N., 33 ft. W. and 7.0 ft. lower than center of crossroads, at approx. corner of secs. 23, 24, 25 and 26, 75 ft. NE. from NE. corner of unpainted farm house, 21 ft. N. from NE. corner of yard fence, 3 ft. E. of power pole with transformer, 1 ft. E. of fence line; in a concrete post, a standard tablet stamped "37 WHV 1957 1412" | 1411.898 |
| 10.2 Reference mark, 280 ft. S. of tablet, 37 ft. N. and 30 ft. W. from center of crossroads; a RR. spike in E. side of power pole projecting 7 in. above ground | 1415.74 |

FEET

LINE 2 (Cont'd)

UNION CENTER QUAD. - 209

- | | | |
|------|---|----------|
| 11.2 | "UE 37 A", 1.0 mi. N. of tablet, along gravel rd., T. 91 N., R. 45 W., at cor. of secs. 13, 14, 23 and 24, 14 ft. S., 86 ft. E. and 1.0 ft. lower than center of crossroads, in center of S. headwall of concrete culvert, a chiseled square | 1370.26 |
| 12.2 | "UE 37 C", 2.0 mi. N. of tablet, along gravel rd., T. 91 N., R. 45 W., at cor. of secs. 11, 12, 13 and 14, 14 ft. N., 29 ft. E. and 2.7 ft. lower than center of crossroads, on the N. end of a 36-in. steel pipe culvert, a punched hole | 1392.0 |
| 13.3 | Le Mars, 5.0 mi. S. and 2.0 mi. E. of, 4.0 mi. N. and 2.0 mi. E. from Neptune, 1.0 mi. N. and 3.0 mi. W. from O'Leary, T. 91 N., R. 45 W., 639 ft. N., 33 ft. W. and 24.9 ft. higher than center of crossroads, at approx. cor. secs. 1, 2, 11 and 12, about 750 ft. N., NE. of small unpainted schoolhouse, 18 ft. S. and 1 ft. E. from T-fence W., 2 ft. W. of power pole, 1 ft. E. of fence line; in a concrete post, a standard tablet stamped "38 WHV 1957 1386" | 1385.579 |
| 13.2 | Reference mark, 625 ft. S., SE. of tablet, 14 ft. S. and 31 ft. E. from center of crossroads, on the S. end of a 24-in. steel pipe culvert; a punched hole | 1358.6 |
| 14.2 | "UE 38 A", 0.8 mi. N. of tablet, along gravel rd., Tps. 91 and 92 N., R. 45 W., at cor. of secs. 1, 2, 35 and 36, 16 ft. S., 107 ft. E. and 3.4 ft. lower than center of crossroads, on the S. end of a 30-in. steel pipe culvert; a punched hole | 1355.6 |
| 15.2 | "29 WHV 1957 1277" (Described in Line 1) | 1276.979 |

LINE 3

W. H. Veatch, 1957; Book GV-864

KINGSLEY QUAD. - 208

- | | | |
|-----|--|----------|
| 0.0 | "27 WHV 1957 1434" (Described in Line 1) | 1433.812 |
| 0.9 | "UE 27 E", 0.9 mi. S. of tablet, along gravel rd., Tps. 91 and 92 N., R. 44 W., at cor. of secs. 1, 2, 35 and 36, 34 ft. S., 36 ft. W. and 5.1 ft. lower than center of crossroads; a RR. spike in W. side of power pole, projecting 6 in. above ground | 1365.50 |
| 1.9 | "UE 27 G", 1.9 mi. S. of tablet, along gravel rd., T. 91 N., R. 44 W., at cor. of secs. 1, 2, 11 and 12, 23 ft. N., 24 ft. E. and 1.8 ft. lower than center of rd., at T-rd. W. and fence line E., on the N. end of a 24-in. concrete pipe culvert, a chiseled square | 1327.01 |
| 3.0 | Remson, 7.5 mi. S. and 1.5 mi. W. of, 3.0 mi. E. from O'Leary, T. 91 N., R. 44 W., 470 ft. S., 35 ft. W. and 1.9 ft. higher than center of crossroads, at approx. corner of secs. 11, 12, 13, and 14, 3 ft. S. and 1 ft. W. from power pole; in a concrete post, a standard tablet stamped "39 WHV 1957 1318" | 1317.813 |
| 3.0 | Reference mark, 444 ft. NE. of tablet, 26 ft. S., 17 ft. E. from center of crossroads, on the E. end of a 24-in. concrete pipe culvert, a chiseled square (Not found) | 1312.05 |
| 3.9 | Remson, 8.5 mi. S. and 1.5 mi. W. from, 1.0 mi. S. and 3.0 mi. E. of O'Leary, T. 91 N., R. 44 W., about 560 ft. E. from approx. cor. of secs. 13, 14, 23 and 24, 32 ft. N., 108 ft. W. and 5.1 ft. lower than center of rd., at rd. forks W. and NW., 12 ft. E. of power pole, 1 ft. N. of fence line; in a concrete post, a standard U. S. Coast and Geodetic and State Survey disk stamped "1164" (This mark projects about 2.5 ft. above ground) (Disturbed 9/68 JHT) (Elevation by USGS) | 1306.355 |

UNION CENTER QUAD. - 209

- | | | |
|-----|--|---------|
| 5.1 | "UE 1164 B", 1.1 mi. W. of disk, along gravel rd., T. 91 N., R. 44 W., at cor. of secs. 14, 15, 22 and 23, 34 ft. S., 34 ft. E. and 3.1 ft. lower than center of crossroads, a RR. spike in S. side of power pole, projecting 6 in. above ground | 1402.91 |
|-----|--|---------|

FEET

LINE 3 (Cont'd)

UNION CENTER QUAD. - 209

- | | | |
|------|--|----------|
| 6.1 | O'Leary, 2.0 mi. S. and 2.0 mi. E. of, 1.0 mi. S. and 1.0 mi. E. of Union Schoolhouse, T. 91 N., R. 44 W., 198 ft. S., 32 ft. W. and 1.7 ft. lower than center of crossroads, at approx. cor. of secs. 22, 23, 26 and 27, 166 ft. S. from corner of fences, at angle in fence S. and W., 2 ft. W. of power pole, 2 ft. E. of fence line, in a concrete post, a standard tablet stamped "40 WHV 1957 1340" (Reported destroyed 12/62 RB1) | 1339.673 |
| 6.1 | Reference mark, 230 ft. NE. of tablet, 32 ft. N., 28 ft. E. from center of crossroads, a RR. spike in W. side of power pole, projecting 6 in. above ground | 1341.03 |
| 8.1 | "UE 40 D", 2.0 mi. S. of tablet, along gravel rd., Tps. 90 and 91 N., R. 44 W., at cor. of secs. 2, 3, 34 and 35, 26 ft. S., 37 ft. W. and 1.5 ft. higher than center of crossroads, a RR. spike in E. side of power pole, projecting 6 in. above ground (Destroyed) | 1374.80 |
| 9.1 | Kingsley, 5.0 mi. NW. of along County Highway "L", from intersection with State Highway 140, 4.0 mi. S. and 1.0 mi. E. of Union Schoolhouse, T. 90 N., R. 44 W., 537 ft. N., 40 ft. W. and 12.7 ft. higher than center of crossroads, at approx. cor. of secs. 2, 3, 10 and 11, 3 ft. S. and 2 ft. W. of power pole, 2 ft. S. and 2 ft. E. of T-fence W., at the top of steep hill, in a concrete post, a standard tablet stamped "41 WHV 1957 1392" (Reported destroyed 6/60 PCS) | 1391.635 |
| 9.2 | Reference mark, 568 ft. S., SW. of tablet, 31 ft. S., 89 ft. W. from intersection of crossroads, a RR. spike in N. side of power pole, projecting 6 in. above ground | 1375.17 |
| 11.2 | "UE 41 D", 2.0 mi. W. of tablet, along County Highway "L", T. 90 N., R. 44 W., at cor. of secs. 4, 5, 8 and 9, 23 ft. S., 16 ft. E. and 1.6 ft. lower than center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole | 1339.5 |
| 12.1 | Hinton, 11.5 mi. E. of, along County Highway "L", from intersection with U. S. Highway 75, 2.0 mi. S. and 4.0 mi. E. of Neptune, T. 90 N., R. 44 W., 34 ft. S., 259 ft. E. and 11.4 ft. lower than center of crossroads, at approx. cor. secs. 5, 6, 7 and 8, 2 ft. S. and 2 ft. W. of power pole, 1 ft. N. of fence line, in a concrete post; standard tablet stamped "42 WHV 1957 1367" | 1366.571 |
| 12.1 | Reference mark, 292 ft. W. of tablet, 33 ft. S., 33 ft. W. from center of crossroads, a RR. spike in N. side of power pole projecting 6 in. above ground | 1375.80 |
| 13.2 | "UE 42 B", 1.0 mi. W. of tablet, along County Highway "L", T. 90 N., Rs. 44 and 45 W., at cor. of secs. 1, 6, 7 and 12, 32 ft. S., 32 ft. W. and 4.8 ft. lower than center of crossroads, a RR. spike in S. side of power pole, projecting 6 in. above ground | 1338.94 |
| 14.3 | "36 WHV 1957 1366" (Described in Line 2) | 1366.416 |

LINE 4

W. H. Veatch, 1957; Book CV-864

UNION CENTER QUAD. - 209

- | | | |
|-----|---|----------|
| 0.0 | "41 WHV 1957 1392" (Described in Line 3) | 1391.635 |
| 1.1 | "UE 41 G", 1.0 mi. S. of tablet, along County Highway "L", T. 90 N., R. 44 W., cor. secs. 10, 11, 14 and 15, 18 ft. N., 12 ft. E. and 3.0 ft. lower than centerline of crossroads, (County Highway "L" curves to SE.), on the N. end of a 24-in. concrete pipe culvert, a chiseled square | 1325.00 |

KINGSLEY QUAD. - 208

- | | | |
|-----|---|---------|
| 2.5 | "UE 41 I", 2.5 mi. S. of tablet, along County Highway "L", T. 90 N., R. 44 W., near cor. secs. 13, 14, 23 and 24, County Highway "L" turns E. along section line, 42 ft. N., 145 ft. W. and 1.9 ft. higher than centerline of rds., at Y-rds., NE. and W., on the W. end of a 24-in. concrete pipe culvert; a chiseled square | 1273.01 |
|-----|---|---------|

FEET

LINE 4 (Cont'd)

KINGSLEY QUAD. - 208

- | | | |
|-----|--|----------|
| 2.8 | Kingsley, 1.0 mi. N. and 1.3 mi. W. of, along County Highway "L", T. 90 N., R. 44 W., 255 ft. S., 34 ft. E. and 1.3 ft. lower than center of highway at T-rd. S., about 0.1 mi. E. from corner of secs. 13, 14, 23 and 24, 148 ft. N. of farmhouse, 117 ft. S. of small schoolhouse, 2 ft. N. of power pole with transformer, 1 ft. W. of fence line; in a concrete post, a standard tablet stamped "43 WHV 1957 1231" | 1230.834 |
| 2.7 | Reference mark, 227 ft. NW. of tablet, 28 ft. S., 21 ft. W. from center of highway, at T-rd. S., on the W. end of a 24-in. concrete pipe culvert; a chiseled square | 1229.30 |
| 3.9 | "UE 43 A", 1.2 mi. S. of tablet along gravel rd., T. 90 N., R. 44 W., near center of the NW. quarter sec. 25, 44 ft. S. and 8 ft. E. from the N. end of bridge over creek, (2.0 ft. lower than center of bridge, (9.1 ft. above water level), top of $\frac{1}{2}$ in. iron rod drove in top of 12-in. piling | 1198.61 |
| 4.5 | "UE 43 B", 1.8 mi. S. of tablet, along gravel rd., T. 90 N., R. 44 W., at quarter corner between secs. 25 and 26, 36 ft. S., 32 ft. W. and 2.6 ft. lower than centerline of rd. at T-rd. S.; a RR. spike in S. side of telephone pole projecting 6 in. above ground | 1206.24 |
| 5.3 | "UE 1220.7", 0.15 mi. SW. along State Highway 140 from USC&GS "RV 22", (C. & N.W. Ry.), T. 90 N., R. 44 W., near approx. N. 1/16 cor. between secs. 35 and 36, centerline of State Highway 140 at crossroads; a chiseled square in pavement | 1220.655 |

LINE 5

J. A. Evans, 1957; Book CV-866

SIOUX CITY NORTH QUAD. - 210

- | | | |
|-----|---|----------|
| 2.6 | "32 EV 1957 1249" (Described in Line 1) | 1248.494 |
| 2.5 | Reference mark, 553 ft. N. of tablet, 32 ft. S. and 68 ft. W. of center of crossroads, in base of W. side of high voltage power pole, a RR. spike painted | 1221.08 |
| 3.5 | "UE 1289.3", 0.9 mi. S. along gravel N.-S. section line rd. from tablet, T. 90 N., R. 46 W., 30 ft. S., 27 ft. W. and same elevation as center of crossroads at approx. corner of secs. 10, 11, 14 and 15, in base of N. side of telephone pole; a railroad spike | 1289.30 |
| 4.5 | "UE 1296.9", 1.9 mi. S. along N.-S. gravel section-line rd. from tablet, T. 90 N., R. 56 W., 111 ft. S., 118 ft. E. and 1.3 ft. higher than center of crossroads, at approx. corner of secs. 14, 15, 22 and 23, in base of concrete foundation, at NW. corner of cyclone fence around a R.E.A. power substation; a chiseled square | 1296.84 |
| 5.4 | Hinton, 2.5 mi. S. and 2.0 mi. E. from, T. 90 N., R. 46 W., 380 ft. N., 32 ft. W. and 10.6 ft. higher than center of crossroads at approx. corner of secs. 22, 23, 26 and 27, 4 ft. S. and 97 ft. W. of NW. corner of farm home of Donald Junck, 349 ft. N. of corner post of fences N. and W., 102 ft. N. of center of wire gate, 3 ft. S. and 1 ft. W. of center of power pole with transformer and 0.5 ft. W. of fence line, in a concrete post, a standard tablet stamped "33 EV 1957 1256" | 1255.781 |
| 5.4 | Reference mark, 83 ft. SW. of tablet, 62 ft. W. of centerline of the rd., in root at base of NE. side of a 24-in. box elder tree a copper nail and washer | 1253.50 |
| 6.5 | "UE 1306.2", 1.1 mi. S. along N.-S. gravel section-line rd. from tablet, T. 90 N., R. 46 W., 29 ft. S., 21 ft. E. and 2.9 ft. lower than centerline of County Highway "J" at crossroads, at approx. corner of secs. 26, 27, 34 and 35, in top of E. end of concrete culvert about 24 in. in diameter, a chiseled square | 1306.15 |
| 7.5 | "UE 1345.0", 2.1 mi. S. along N.-S. section-line gravel rd. from tablet, Tps. 89 and 90 N., R. 46 W., 115 ft. S., 36 ft. W. and 4.6 ft. lower than centerline of rd. at T-rd. E. on Plymouth-Woodbury County lines, at approx. cor. of secs. 2, 3, 34 and 35, in base of N. side of a 24-in. cottonwood tree; a RR. spike | 1344.97 |

FEET

LINE 5 (Cont'd)

SIOUX CITY NORTH QUAD. - 210

- 8.6 Hinton, 5.5 mi. S. and 2.1 mi. E. from, 4.75 mi. N. and 3.4 mi. W. of Lawton, T. 89 N., R. 46 W., 28 ft. S., 620 ft. E. and 42.0 ft. lower than centerline of rd. at T-rd. N., at approx. corner of secs. 2, 3, 10 and 11, 146 ft. S. and 32 ft. W. of SW. corner of porch on Lowell E. Gard farm home, 28 ft. S. and 50 ft. E. of centerline of rd. at private driveway N., 47 ft. W. of center of wire gate and farm rd. leading S., 1 ft. N. and 2 ft. W. of telephone pole and 1 ft. N. of fence line, in a concrete post, a standard tablet stamped "34 EV 1957 1255" 1255.085
- 8.6 Reference mark, 63 ft. N.-NW. of tablet, 31 ft. N. of centerline of the rd. and 36 ft. E. of centerline of private driveway N., in root at base of SE. side of a 30-in. elm tree; a copper nail and washer 1259.16

UNION CENTER QUAD. - 209

- 10.4 Lawton, 2.8 mi. N. and 2.5 mi. W. from, T. 89 N., R. 46 W., 299 ft. N., 32 ft. W. and 25.4 ft. higher than center of crossroads at approx. corner of secs. 11, 12, 13 and 14, 267 ft. N. of corner post of fences N. and W., 128 ft. N. of center of gate into field, on S. slope of hill, 4 ft. S. and 4 ft. W. of telephone pole and 1 ft. E. of fence line, in concrete post, a standard tablet stamped "35 EV 1957 1253" 1253.226
- 10.4 Reference mark, 281 ft. S. of tablet, 22 ft. N. and 30 ft. W. of crossroads, in top of N. end of a corrugated steel 30-in. pipe culvert, a painted square 1225.4
- 10.9 "UE 1174.0", 0.55 mi. S. along section-line gravel rd. from tablet, T. 89 N., R. 46 W., 65 ft. N., 13 ft. W. and 1.1 ft. higher than centerline of rd. at fence lines E. and W., at approx. quarter corner between secs. 13 and 14, 35 ft. S., 13 ft. W. and 0.3 ft. higher than center of small steel bridge over Whiskey Creek, in top of piling at SW. wing wall of bridge; a copper nail and washer Water elevation of Whiskey Creek (measured down) 11/13/57 1154.3 1173.94
- 11.4 "UE 1165.5", 1.05 mi. S. along section-line gravel rd. from tablet, T. 89 N., R. 46 W., 22 ft. N., 26 ft. W. and 7.4 ft. lower than center of crossroads, at approx. corner of secs. 13, 14, 23 and 24, in top of NW. end of a 24-in. concrete pipe culvert; a chiseled square 1165.47
- 12.4 Lawton, 1.75 mi. N. and 2.5 mi. W. from, T. 89 N., R. 46 W., 32 ft. N., 262 ft. E. and 5.2 ft. higher than center of crossroads at approx. corner of secs. 23, 24, 25 and 26, 32 ft. N. and 12 ft. E. of centerline of rd. at fence line S., opposite NE. corner of grove of trees, 3 ft. W. of power pole and 1 ft. S. of woven wire fence; in concrete post; a standard tablet stamped "36 EV 1957 1204" 1203.823
- 12.4 Reference mark, 163 ft. SW. of tablet, 55 ft. S. and 123 ft. E. of center of crossroads, in base of W. side of a 24-in. cottonwood tree, a copper nail and washer 1203.83
- 14.0 Lawton, 1.75 mi. N. and 1.0 mi. W. from, T. 89 N., R. 45 W., 32 ft. N., 35 ft. W. and 2.2 ft. higher than centerline of rd. at fence line S., at approx. quarter corner between secs. 19 and 30, 32 ft. N. and 75 ft. W. of centerline of rd. at private driveway N. to farmhouse, 89 ft. S. and 60 ft. W. of SW. corner of white farmhouse, 1 ft. S. and 29 ft. W. of corner fence post, at SW. corner of farmyard and 38 ft. W. of high voltage power line; in a concrete post; a standard Iowa Geodetic Survey Tablet stamped "97-511" (Elevation by USGS) 1302.232
- 14.4 Lawton, 1.75 mi. N. and 0.5 mi. W. from, T. 89 N., R. 45 W., 34 ft. S., 305 ft. W. and 37.2 ft. higher than center of crossroads at approximate corner of secs. 19, 20, 29 and 30, 209 ft. E. of corner post of T-fence S., 9 ft. E. of telephone pole, 1 ft. N. of fence line, on top of hill and 1 ft. S. of edge of bank of steep cut of rd.; in a concrete post flush with ground, a standard Iowa Geodetic Survey Tablet stamped "97-510" (Elevation by USGS) 1267.715

FEET

LINE 5 (Cont'd)

UNION CENTER QUAD. - 209

- 14.8 Lawton, 1.75 mi. N. and 0.1 mi. W. from, T. 89 N., R. 45 W., 32 ft. N. and 299 ft. E. of centerline of rd., at fence lines N. and S., at approx. W. 1/16 corner between secs. 20 and 29, at crest of a sharp pointed ridge, 66 ft. E. of corner post of T-fence SE., 24 ft. E. of power pole, 7 ft. N. and 17 ft. E. of a 12-in. ash tree, 1 ft. N. of fence line of 1 ft. S. of steep bank of rd. cut; in a concrete post; a standard Iowa Geodetic Survey Tablet stamped "97-563", (Elevation by USGS) 1235.455
- 15.1 "UE 1178.1", 0.3 mi. E. along gravel section-line rd. from Iowa Geodetic Survey B.M. "97-563", T. 89 N., R. 45 W., about 770 ft. E. of approx. quarter corner between secs. 20 and 29, 13 ft. S., 44 ft. W. and 0.1 ft. lower than center of bridge over Muddy Creek, in top of piling at SW. wing wall of bridge, a copper nail and washer Water elevation of Muddy Creek (measured down) 11/14/57 1155.0 1178.08
- 15.5 "UE 1183.0", 0.7 mi. E. along section-line gravel rd. from disk, T. 89 N., R. 45 W., 11 ft. S., 89 ft. E. and 0.1 ft. higher than centerline of County Highway "P" at crossroads, at approx. corner of secs. 20, 21, 28 and 29, in wooden floor at SE. corner of a small wooden bridge over a small ditch, a copper nail and washer 1182.89
- 16.3 "UE 1248.4", 1.5 mi. E. along section-line gravel rd. from disk, T. 89 N., R. 45 W., about 0.2 mi. W. of approx. corner of secs. 21, 22, 27 and 28, 11 ft. S., 20 ft. W. and 0.3 ft. lower than center of small steel bridge over a creek, in top of piling at SW. wing wall of bridge, a copper nail and washer 1248.29
- 16.3 Lawton, 1.75 mi. N. and 1.6 mi. E. from, 34 ft. S., 478 ft. E. and 27.4 ft. higher than center of crossroads, at approx. corner of secs. 21, 22, 27 and 28, at crest of hill, 34 ft. S. and 443 ft. W. of centerline of rd. at private driveway N. to farmhouse, 447 ft. E. of corner post of fences S. and E., 23 ft. E. of power pole and in S. right-of-way fence line; in a concrete post, a standard Iowa Geodetic Survey Tablet stamped "97-57" and is buried about 0.1 ft. (Elevation by USGS) 1322.023
- 16.8 "UE 1293.8", 0.5 mi. E. along section-line gravel rd. from disk, T. 89 N., R. 45 W., 577 ft. E. and 32.0 ft. lower than centerline of rd. at fence lines N. and S., at approx. quarter corner between secs. 22 and 27, 13 ft. N., 9 ft. E. and 0.2 ft. higher than center of small wooden bridge over a drain, in top of piling at NE. wing wall of bridge, a copper nail and washer 1293.71

MOVILLE QUAD. - 185

- 17.3 (U.S.C.&G.S. BR 1701) (C. & N.W. Ry.) About 4.1 mi. W. along the Chicago and North Western Railway from Moville, Woodbury County, at milepost 84, at culvert 1701 and on the top of the NW. corner of the N. concrete headwall; a chiseled circle (Reported destroyed 6/16/60 RGN) 1263.902

LINE 6

J. A. Evans, 1957; Book CV-866

MOVILLE QUAD. - 185

- 0.0 (U.S.C.&G.S. BR 1701) (C. & N.W. Ry.) (Described in Line 5) 1263.902

UNION CENTER QUAD. - 209

- 0.9 Lawton, 1.75 mi. N. and 2.5 mi. E. from, 1.0 mi. N. and 3.0 mi. W. of Moville, T. 89 N., R. 45 W., 137 ft. N., 36 ft. E. and 13.6 ft. higher than center of crossroads, at approx. corner of secs. 22, 23, 26 and 27, 107 ft. N. of corner post of fences N. and E., on S. slope of hill, 43 ft. S. of power pole of lead into farmhouse and 1 ft. E. of fence line; in concrete post, a standard Iowa Geodetic Survey Tablet stamped "97-1477" (Elevation by USGS) 1324.352
- 1.3 Moville, 1.0 mi. N. and 2.7 mi. W. of Moville, T. 89 N., R. 45 W., about 231 ft. E. of W. 1/16 corner between secs. 23 and 26, 1571 ft. E. of crossroads, at crest of hill, 36 ft. N. of centerline of the rd. and on edge of bank of deep cut in rd. and 3 ft. S. and 54 ft. W. of power pole and 3 ft. S. of fence line; in a concrete post; a standard Iowa Geodetic Survey Tablet stamped "97-52" (Elevation by USGS) 1326.422

FEET

LINE 6 (Cont'd)

UNION CENTER QUAD. - 209

- 2.0 Merville, 1.0 mi. N. and 2.0 mi. W. from, T. 89 N., R. 45 W., 33 ft. N., 321 ft. E. and 5.7 ft. higher than centerline of E.-W. gravel rd. at fence lines N. and S., at approx. corner of secs. 23, 24, 25 and 26, 1 ft. N. and 94 ft. E. of telephone pole, on highest point of a small ridge, 2 ft. N. of steep bank of cut in rd. and 0.5 ft. N. of woven wire fence, in a concrete post flush with ground, a standard Iowa Geodetic Survey Tablet stamped "97-50" (Elevation by USGS) 1267.809
- 2.2 "UE 1193.6", 0.2 mi. E. along E.-W. gravel section-line rd. from Iowa Geodetic Survey Bench Mark No. "97-50", T. 89 N., R. 45 W., at approximate W. 1/16 corner between secs. 24 and 25, 13 ft. N., 43 ft. W. and 0.5 ft. higher than center of wooden bridge over creek, in top of wooden piling at NW. wing wall of bridge; a copper nail and washer Water elevation of stream under bridge (measured down) 11/18/57 1173.6 1193.54
- 2.5 "UE 1258.9", 0.45 mi. E. along E.-W. section-line gravel rd. from disk, T. 89 N., R. 45 W., 31 ft. N., 42 ft. E. and 1.1 ft. higher than centerline of rd. at T-rd. N., at approx. quarter corner between secs. 24 and 25, in top of E. end of a corrugated steel pipe 24-in. culvert, a painted square 1258.806
- 3.0 "UE 1167.7", 0.95 mi. E. along E.-W. section-line gravel rd. from disk, T. 89 N., Rs. 44 and 45 W., 41 ft. N., 22 ft. E. and same elevation as centerline of rd. at fence rows N. and S., at approx. corner of secs. 19, 24, 25 and 30, in top of wooden piling at SE. wing wall of small wooden bridge leading into field; a copper nail and washer 1167.67
- 4.0 "UE 1156.5", 1.5 mi. E. along E.-W. section-line gravel rd., thence 0.5 mi. E. along County Highway "T" from disk, T. 89 N., R. 44 W., 15 ft. S., 35 ft. E. and 0.7 ft. higher than centerline of County Highway "T" at fence row N., at approx. corner of secs. 29, 30, 31 and 32, 15 ft. S., 86 ft. W. and 0.2 ft. higher than center of bridge over W. fork of Little Sioux River, in top of wooden piling at SW. wing wall of bridge; a copper nail and washer Water Elevation of West fork Little Sioux River (measured down) 11/26/57 1135.4 1156.43
- 4.6 "UE 1167.9", 2.55 mi. E. along section-line rds. from disk, T. 89 N., R. 44 W., about 400 ft. E. of approx. quarter corner between secs. 20 and 29, centerline of State Highway 140 at crossroads, in concrete pavement, a chiseled square 1167.9
- 5.0 Merville, 1.0 mi. N. and 0.9 mi. E. from, T. 89 N., R. 44 W., 317 ft. N., 26 ft. W. and same elevation as center of crossroads, at approx. corner of secs. 20, 21, 28 and 29, 321 ft. S. and 26 ft. W. of centerline of rd. at fence line E., opposite NW. corner of a grove of trees around farmhouse, 105 ft. S. and 6 ft. E. of second power pole N. of crossroads and 1 ft. E. of fence line; in concrete post; a standard tablet stamped "37 EV 1957 1179" 1178.795
- 4.9 Reference mark, 246 ft. S. of tablet, 71 ft. N. and 31 ft. W. of center of crossroads, in base of SE. side of a power pole, a RR. spike 1179.79
- 5.8 About 2 mi. NE. along the Chicago and North-western Railway from Merville, Woodbury County, about 130 ft. NE. of milepost 78, 40.5 ft. NW. of the centerline of the track, 25 ft. NE. of the center of a farm rd. crossing and 22.5 ft. SW. of a pole, a standard disk stamped "1189.250 P 14 1933" and set in the top of a concrete post 1189.250

LINE 7

J. A. Evans, 1957; Book CV-866

UNION CENTER QUAD. - 209

- 0.0 "UE 1258.9" (Described in Line 6) 1258.806
- 2.0 Merville, 3.0 mi. N. and 1.6 mi. W. from, T. 89 N., R. 45 W., 383 ft. S., 32 ft. W. and 18.6 ft. lower than center of crossroads at approx. quarter corner between secs. 12 and 13, on S. slope of hill, 620 ft. N. and 32 ft. W. of centerline of rd. at private T-rd. E. to farmhouse, at foot of hill, 3 ft. N. of second power pole S. of crossroads and 2 ft. W. of fence line; in a concrete post; a standard tablet stamped "38 EV 1957 1278" 1278.126

FEET

LINE 7 (Cont'd)

UNION CENTER QUAD. - 209

- | | | |
|-----|---|----------|
| 2.0 | Reference mark, 409 ft. S.-SW. of tablet, 32 ft. N. and 14 ft. E. of center of crossroads, in concrete base of iron fence post; a chiseled square | 1296.25 |
| 2.5 | "UE 1267.6", 0.5 mi. W. along E.-W. section line gravel rd. from tablet, T. 89 N., R. 45 W., 32 ft. N., 168 ft. E. and 10.0 ft. lower than centerline of rd. at T-rd. N., at approx. cor. of secs. 11, 12, 13 and 14, in root at base of S. side of 24-in. maple tree which is second tree W. of E. end of row of maple trees; a copper nail and washer | 1267.50 |
| 3.1 | "UE 1269.9", 0.5 mi. W. along E.-W. section line rd., thence 0.55 mi. N. along section line dirt rd. from tablet, T. 89 N., R. 45 W., 395 ft. N., 11 ft. W. and 10.2 ft. lower than centerline of a rd. at fence lines E. and W., at approx. quarter corner between secs. 11 and 12, 32 ft. N. and 11 ft. W. and 0.1 ft. lower than center of wooden bridge over a small creek, in top of piling at NW. wing wall of bridge; a copper nail and washer Water elevation of creek (measured down) 11/27/57 1244.0 | 1269.86 |
| 3.5 | "UE 1340.5", 0.5 mi. W. along E.-W. section line gravel rd., thence 1.0 mi. N. along N.-S. section line dirt rd. from tablet, T. 89 N., R. 45 W., 22 ft. N., 51 ft. W. and 2.5 ft. lower than centerline of County Highway "T" at crossroads, at approx. corner of secs. 1, 2, 11 and 12; in top of N. end of a concrete pipe 24-in. culvert, a chiseled square | 1340.44 |
| 4.1 | Menville, 4.6 mi. N. and 2.1 mi. W. from, 0.3 mi. S. of Woodbury-Plymouth County line, T. 89 N., R. 45 W., 526 ft. S., 28 ft. W. and 17.3 ft. higher than centerline of rd. at fence lines E. and W., at approx. N. 1/16 corner between secs. 1 and 2, 56 ft. N. and 32 ft. W. of centerline of rd. at field rd. W., on crest of hill, 1 ft. N. and 4 ft. E. of telephone pole, 3 ft. E. of woven wire fence, in side of steep rd. bank; in a concrete post, a standard Iowa Geodetic Survey Tablet stamped "97-1044" Elevation by USGS | 1358.181 |
| 4.5 | "UE 1352.1", 0.3 mi. N. along gravel section line rd. from disk in Woodbury-Plymouth County lines, Tps. 89 and 90 N., R. 45 W., 28 ft. S., 22 ft. W. and 2.0 ft. lower than center of crossroads, at approx. corner of secs. 1, 2, 35 and 36; in top of S. end of corrugated steel pipe 24-in. culvert, a punched hole | 1352.0 |
| 5.5 | "UE 1270.4", 1.3 mi. N. along section line gravel rd. from disk, T. 90 N., R. 45 W., 65 ft. N., 32 ft. W. and 13.8 ft. lower than centerline of county Highway "J" at crossroads, at approx. corner of secs. 25, 26, 35 and 36; in N. wing wall of N. head wall of concrete culvert, a chiseled square | 1270.27 |
| 6.5 | Menville, 7.0 mi. N. and 2.1 mi. W. from, 0.25 mi. N. and 7.5 mi. W. from Kingsley, 5.0 mi S. and 2.0 mi. E. from Neptune, T. 90 N., R. 45 W., 273 ft. N.; 32 ft. W. and 3.5 ft. lower than center of crossroads at approx. corner of secs. 23, 24, 25 and 26, 239 ft. N. of corner post of fences N. and W., 314 ft. S. of corner post of T-fence W., 3 ft. N. of power line pole and 0.5 ft. W. of fence line, in a concrete post, a standard tablet stamped "39 EV 1957 1379" | 1378.701 |
| 6.6 | Reference mark, 95 ft. NE. of tablet, 42 ft. E. of centerline of the rd., in base of W. side of a 30-in. cottonwood tree, a copper nail and washer | 1373.42 |
| 7.5 | "UE 1313.7", 1.0 mi. N. along section line gravel rd. from tablet, T. 90 N., R. 45 W., 32 ft. N., 22 ft. W. and 5.4 ft. lower than center of crossroads, at approx. corner of secs. 13, 14, 23 and 24, in top of N. end of a corrugated steel pipe culvert about 24-in. in diameter, a punched hole | 1313.4 |
| 8.5 | "UE 1321.5", 2.0 mi. N. along gravel section line rd. from tablet, T. 90 N., R. 45 W., 15 ft. N., 32 ft. E. and 3.8 ft. lower than center of crossroads at approx. corner of secs. 11, 12, 13 and 14, in top of N. end of a 24-in. corrugated steel pipe culvert, a punched hole | 1321.2 |
| 9.5 | "36 WHV 1957 1366" (Described in Line 2) | 1366.416 |

FEET

LINE 8

J. A. Evans, 1957; Book CV-866

KINGSLEY QUAD. - 208

- 0.0 US&GS RV 22 (C. & N.W. Ry.) About 1.75 mi. SW. along The Chicago and Northwestern Railway from Kingsley, Plymouth County, about 265 ft. NE. of milepost 73 at culvert 1660 and in the top of the NE. end of the NW. stone headwall; a standard Monel Rivet 1219.332
- 0.1 "UE 1220.7", 0.15 mi. SW. along State Highway 140 from disk, T. 90 N., R. 44 W., near approx. N. 1/16 corner between secs. 35 and 36, centerline of State Highway 140 at crossroads, a chiseled square in pavement 1220.655
- 0.9 "UE 1299.1", 0.15 mi. SW. along State Highway 140, thence 0.75 mi. S. along section line dirt rd. from disk, Tps. 89 and 90 N., R. 44 W., 280 ft. S., 48 ft. W. and 21.4 ft. higher than center of crossroads, at approx. corner of secs. 1, 2, 35 and 36, on Woodbury-Plymouth County line, in base of E. side of a sprawling, leaning, 12-in. maple tree, a cepper nail and washer 1299.08
- 1.8 "UE 1318.8", 0.15 mi. SW. along State Highway 140, thence 1.65 mi. S. along dirt and gravel section line rds. from disk, T. 89 N., R. 44 W., 47 ft. N., 45 ft. E. and 9.8 ft. lower than centerline of State Highway 243 at crossroads, at approx. corner of secs. 1, 2, 11 and 12, in top of N. end of 30-in. concrete pipe culvert, a chiseled square 1318.81
- 1.8 Kingsley, 2.8 mi. S. and 1.5 mi. W. from, T. 89 N., R. 44 W., 49 ft. N., 584 ft. W. and 29.6 ft. higher than centerline of State Highway 243 at crossroads, at approx. corner of secs. 1, 2, 11 and 12, 49 ft. N. and 219 ft. W. of center of State Highway 243, at private T-rd. S. to farmhouse, on crest of ridge, 1 ft. S. of fence line and 3-in. square metal marker tag on top of bank of steep cut in highway, in concrete post, a standard Iowa Geodetic Survey tablet stamped "97-162" (Elevation by USGS) 1358.185
- 2.1 US&GS Triangulation Station "Kingsley 1950" The station is located about 3 mi. ___ and 1.25 mi. W. of the small city of Kingsley, on land owned and occupied by Mr. Marl Bogen-raief, T. 89 N., R. 44 W., in NW. quarter of sec. 12, it is located on a prominent hill about 0.5 mi. SW. of farm buildings, it is 7 ft. SE. of a white witness post and 5 ft. S. of a fence line. The mark is set 12 in. below the surface of the ground and the disk is stamped "KINGSLEY 1950" (NOTE: The fence line and witness post has been removed and the mark is now located in open wheat field. (Elevation by USGS) 1430.863
- 2.1 "US&GS KINGSLEY REFERENCE MARK NO. 1, 1950", Mark is 86.38 ft. distant from station in azimuth of 256°50'53.10" in open wheat field, in a concrete post projecting about 2 in., a standard reference mark disk stamped "KINGSLEY NO. 1 1950" 1429.756
- 2.1 "US&GS KINGSLEY REFERENCE MARK NO. 2, 1950", Mark is 73.29 ft. distant from station in azimuth of 92°33'24.10" in open wheat field, in a concrete post projecting about 2 in., a standard US&GS Reference Mark disk stamped "KINGSLEY NO. 2 1950" 1429.570
- 3.0 "UE 1298.1", 0.15 mi. across field, thence 0.8 mi. S. along gravel section line rd. from US&GS Triangulation station, "KINGSLEY 1950", T. 89 N., R. 44 W., 38 ft. N., 31 ft. W. and 7.0 ft. lower than center of crossroads, at approx. corner of secs. 11, 12, 13 and 14, in base of E. side of a 48-in. cottonwood tree, a railroad spike 1298.13
- 3.3 Kingsley, 4.2 mi. S. and 1.5 mi. W. from, 2.6 mi. N. and 3.9 mi. E. from Merville, T. 89 N., R. 44 W., 584 ft. N., 38 ft. W. and 40.8 ft. higher than centerline of N.-S. section line rd. at fence lines E. and W., at approx. quarter corner between secs. 13 and 14, about 73 ft. S. of crest of ridge, 5 ft. E. of steep bank of rd. cut and 2 ft. E. of fence line with a 3-in. square metal marker tag attached; in a concrete post flush with ground; a standard Iowa Geodetic Survey Tablet stamped "97-1348" (Elevation by USGS) 1332.413
- 3.9 "UE 1252.4", 0.6 mi. S. along gravel section line rd. from disk, T. 89 N., R. 44 W., 172 ft. N., 12 ft. E. and 1.4 ft. higher than center of crossroad, at approx. corner of secs. 13, 14, 23 and 24, 24 ft. S. and 12 ft. E. of center of small steel bridge over McElhaney Creek, in top of piling at SE. wing wall of bridge; a cepper nail and washer Water Elevation of McElhaney Creek (measured down) 12/3/57 1232.9 1252.40

FEET

LINE 8 (Cont'd)

KINGSLEY QUAD. - 208

- 4.5 Merville, 1.5 mi. N. and 3.9 mi. E. from, T. 89 N., R. 44 W., 71 ft. S., 31 ft. E. and 13.1 ft. higher than centerline of rd. at fence lines E. and W. and center of high voltage power line crossing, at approx. quarter corner between secs. 23 and 24 on N. slope of hill, 167 ft. N. and 31 ft. E. of centerline of field rd. W., 5 ft. W. of woven wire fence and in side of steep bank of rd. cut, in a concrete post; a standard Iowa Geodetic Survey Tablet stamped "97-1349" (Elevation by USGS) (Reported destroyed 9/68 JHT) 1315.063
- 5.0 Merville, 1.0 mi. N. and 3.9 mi. E. from, T. 89 N., R. 44 W., 35 ft. S., 229 ft. E. and 7.8 ft. higher than center of crossroads, at approx. corner of secs. 23, 24, 25 and 26, 197 ft. E. of corner post of fences S. and E., 197 ft. W. of corner post of T-fence S., on E. break of a small ridge, 1 ft. N. and 2 ft. W. of power line pole and 1 ft. S. of fence line, in concrete post, a standard tablet stamped "40 EV 1957 1274" (Erroneously Stamped) 1375.824
- 5.0 Reference mark, 214 ft. W. of tablet, 50 ft. S. and 17 ft. E. of center of crossroads, in top of E. end of a concrete pipe 30-in. culvert; a chiseled square 1366.40

UNION CENTER QUAD. - 209

- 5.6 Merville, 1.0 mi. N. and 3.4 mi. E. from, T. 89 N., R. 44 W., 25 ft. S., 19 ft. E. and 1.4 ft. higher than E.-W. section line rd. at fence lines N. and S., at approx. quarter corner between secs. 23 and 26, 2 ft. S. and 19 ft. E. of corner post of T-fence S., 25 ft. S. and 165 ft. E. of centerline of rd. at private driveway NW. to farmhouse, 2 ft. S. of fence line with 3-in. square metal marker attached, in concrete post buried 0.1 ft., a standard Iowa Geodetic Survey tablet stamped "97-1451" (Elevation by USGS) 1301.261
- 6.1 Merville, 1.0 mi. N. and 2.9 mi. E. from, T. 89 N., R. 44 W., 101 ft. S., 37 ft. W. and 1.7 ft. higher than center of crossroads, at approx. corner of secs. 22, 23, 26 and 27, 9 ft. N. and 3 ft. W. of power pole at T-intersection of power line, 1 ft. W. of fence line with 3-in. square metal marker tag attached, in a concrete post buried about 0.2 ft., a standard Iowa Geodetic Survey tablet stamped "97-1448" (Elevation by USGS) 1260.512
- 7.1 "UE 1203.0", 1.0 mi. W. along section line gravel rd. from disk, T. 89 N., R. 44 W., 166 ft. S., 14 ft. E. and 0.8 ft. higher than center of crossroads, at approx. corner of secs. 21, 22, 27 and 28, 41 ft. N., 14 ft. E. and 1.7 ft. lower than center of wooden bridge over McElhaney Creek, in top of piling at NE. wing wall of bridge, a copper nail and washer Water elevation of McElhaney Creek (measured down from floor of bridge) 2/5/57 1188.6 1202.99
- 8.2 "37 EV 1957 1179" (Described in Line 6) 1178.795