

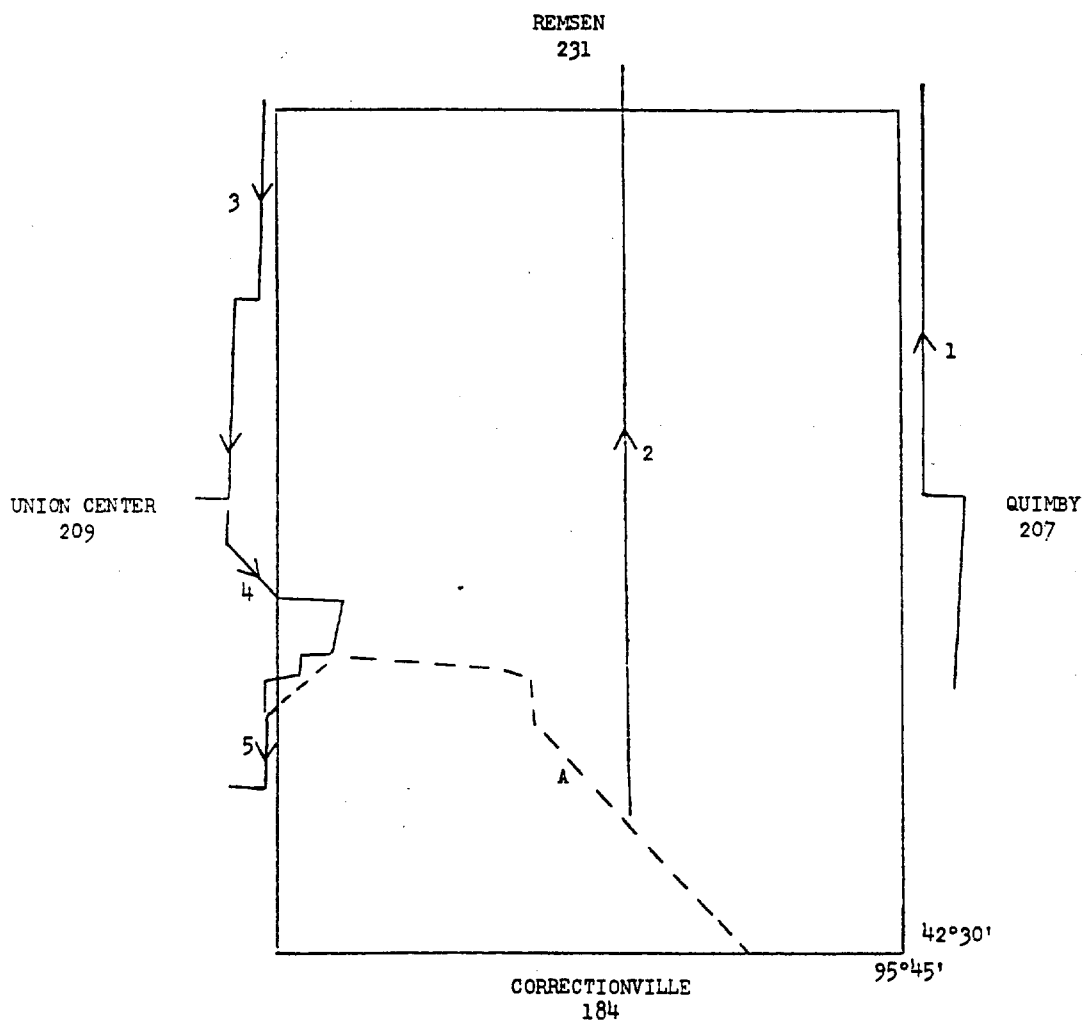
THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1927

Woodbury, Plymouth and
Cherokee Counties
Final Adjustment of 1969

Edition of 2/27/69
PR: AKH/PH/kw

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KINGSLEY QUADRANGLE
208 - IOWA
N4230-W9545/15
Diagram NK 15-4
Ft. Dodge, Iowa



USC&GS LEVELING

A = Quadrangle No. 420954

Based on Supplemental Adjustment of 1936, 1937 and 1939

FEET

LINE 1

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

QUIMBY QUAD. - 207

2 37	0.0	0.8 mi S. along the Illinois Central RR. from the station at Washta, Cherokee County, 116 ft SW. of a rd. crossing, 30.5 ft W. of the W. rail, 2.1 ft N. of a pole, and 15.5 ft E. of the right-of-way fence; standard disk stamped "Q 25 1934" and set in the top of a concrete post projecting 5 in. above ground	1147.199
38	1.8	UE; 18 ft N. of center W. and concrete deck bridge over Little Sioux River and 2.4 ft higher; 830 ft E. of T-rd. N., and 5.2 ft lower; near E. sixteenth cor. sec. 30 and 31, T. 90 N., R. 41 W.; top of concrete wingwall railing; chiseled square painted "UE"	1149.80
40	2.9	UE; 100 ft N., 25 ft W. and 4.5 ft lower than center of rd. at fence E., quarter cor. secs. 19 and 30, T. 90 N., R. 41 W.; 3 ft concrete tube culvert; chiseled square painted "UE"	1249.38
41	3.8	Reference mark; 156 ft S. of tablet; 35 ft N., 20 ft W. of crossroad, 3 ft concrete tube culvert; chiseled square, painted "RM"	1292.15
42	3.9	Washta, 2 mi N. and 0.5 mi W. of, 190 ft N., 34 ft W. and 1.7 ft higher than crossroad; quarter cor. secs. 18 and 19, T. 90 N., R. 41 W.; 6 ft S. of steel witness sign; 1 ft E. of W. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile, standard tablet stamped "1 T 1968 1295"	1294.781
43	4.8	UE; 21 ft S., 30 ft E. and 0.8 ft lower than crossroad, quarter cor. secs. 7 and 18, T. 90 N., R. 41 W.; 2 ft corr. steel culvert; punch hole, painted "UE"	1316.92
45	5.9	UE; Center of T-rd. S. near quarter cor. oversized secs. 6 and 7, T. 90 N., R. 41 W.; painted "UE Centerline"	1295.8
46	6.7	Reference mark; 130 ft E. of tablet, 38 ft N., 40 ft W. of T-rd. N.; S. side power pole; rail spike, painted "RM"	1267.56
47	6.7	Washta, 4 mi N. and 1.5 mi W. of; 39 ft N., 170 ft W. and 5.3 ft higher than T-rd. N., cor. secs. 1, 6, 7 and 12, T. 90 N., Rs. 41 and 42 W.; 8 ft W. of steel witness sign; 1 ft S. of N. right-of-way fence, on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "2 T 1968 1272"	1271.662
48	7.8	UE; 33 ft S., 20 ft W. and 1.5 ft lower than T-rd. S., cor. secs. 1, 6, 31 and 36, Tps. 90 and 91 N., Rs. 41 and 42 W., 4 ft concrete tube culvert; chiseled square, painted "UE"	1262.42
49	8.8	UE; 32 ft N., 28 ft E. and 1.4 ft lower than T-rd. N., cor. secs. 25, 30, 31 and 36, T. 91 N., Rs. 41 and 42 W., top cor. concrete retaining wall; top 1 in. eye bolt - X mark; painted "UE"	1350.3
50	9.8	Quimby, 3.5 mi N. and 5 mi W. of; 472 ft S., 38 ft E. and 13.2 ft higher than crossroad, cor. secs. 19, 24, 25 and 30, T. 91 N., Rs. 41 and 42 W.; 30 ft N. of center of T-drive E. to field; 8 ft N. 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 "3 T 1968 1374"	1374.104
51	9.9	Reference mark; 405 ft NW. of tablet, 70 ft S., 28 ft W. of crossroad, 1.5 ft corr. steel drive culvert; punch hole, painted "RM"	1360.92
53	10.9	UE; 35 ft S., 20 ft W. and 0.1 ft lower than crossroad, cor. secs. 18, 13, 19 and 24, T. 91 N., Rs. 41 and 42 W., 3 ft concrete tube culvert; chiseled square, painted "UE"	1352.52

FEET

LINE 1 (Cont'd)

QUIMBY QUAD. - 207

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|------|------|---|----------|
| 2 55 | 12.0 | UE; 20 ft N., 43 ft W. and 2.6 ft lower than crossroad, cor. secs. 7, 18, 12 and 13, T. 91 N., Rs. 41 and 42 W.; 2.5 ft concrete tube culvert; chiseled square, painted "UE" | 1355.06 |
| 56 | 12.9 | Quimby, 6.5 mi N. and 5 mi W. of, 528 ft S., 34 ft W. and 19.9 ft higher than crossroad, cor. secs. 6, 7, 1 and 12, T. 91 N., Rs. 41 and 42 W.; 25 ft N. of center of T-drive W.; 1 ft E. of W. right-of-way fence, 6 ft S. of steel witness sign, on 25 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "4 T 1968 1381" | 1380.918 |
| 57 | 13.0 | Reference mark; 491 ft N. of tablet, 37 ft S., 16 ft W. of crossroad, 3.5 ft corr. steel culvert; punch hole, painted "RM" | 1358.89 |
| 58 | 14.1 | UE; 35 ft N., 22 ft W. and 1.9 ft lower than crossroad, cor. secs. 31, 36, 1 and 6, Tps. 91 and 92 N., Rs. 41 and 42 W.; 2 ft concrete tube culvert; chiseled square, painted "UE" | 1354.87 |
| 59 | 15.1 | UE; Center of crossroad (Co. Hwy. "A" E.-W.), cor. secs. 30, 31, 25 and 36, T. 92 N., Rs. 41 and 42 W.; copper nail and washer, painted "UE Centerline" | 1370.13 |

PAULLINA QUAD. - 230

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|----|------|---|----------|
| 60 | 16.1 | Reference mark; 460 ft SSW. of tablet, 40 ft N., and 15 ft W. of crossroad; 3 ft concrete tube culvert; chiseled square, painted "RM" | 1413.57 |
| 61 | 16.2 | Cleghorn, 3.25 mi S. and 1.5 mi W. of; 497 ft N., 36 ft E. and 6.1 ft higher than crossroad, cor. secs. 19, 30, 24 and 25, T. 92 N., Rs. 41 and 42 W.; at NW. cor. grove of trees; 18 ft N. of cor. of fences N. and E., and steel witness sign; 1 ft W. of E. right-of-way fence, on 25 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "5 T 1968 1422" | 1421.950 |

LINE 2

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

KINGSLEY QUAD. - 208

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|------|-----|--|----------|
| 3 50 | 0.0 | At Pierson, Woodbury Co., 153 ft SE. of the S. cor. of the Chicago & North Western Ry. station, 24 ft W. from the W. edge extended of the sidewalk on the E. side of the st., 48 ft E. of the center of the st. crossing, 19.6 ft NE. of the center of the main track; a standard disk stamped "1269.013 L 14 1933" and set in the top of a concrete post projecting 6 in. above ground. | 1269.013 |
| 50 | 0.3 | UE; center of T-street S. in N. part of Pierson (Main St. Blvd. S.), near quarter cor. secs. 1 and 12, T. 89 N., R. 43 W.; copper nail and washer, painted "UE Centerline" | 1325.33 |
| 51 | 0.7 | UE; center of T-rd. N. (Co. "K" N., Co. "E" E.-W.), cor. secs. 6, 7, 1 and 12, T. 89 N., Rs. 42 and 43 W.; copper nail and washer; painted "UE Centerline" | 1288.01 |
| 52 | 1.7 | UE; center of crossroad, cor. secs. 31, 36, 1 and 6, Tps. 89 and 90 N., Rs. 42 and 43 W., copper nail and washer, painted "UE Centerline" | 1322.19 |
| 53 | 2.7 | Reference mark; 306 ft SE. of tablet, 200 ft N. and 28 ft E. of crossroad, 3 ft corr. steel drive culvert; X mark, painted "RM" | 1398.53 |

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KINGSLEY QUADRANGLE
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FEET

LINE 2 (Cont'd)

KINGSLEY QUAD. - 208

3 54	2.8	Pierson, 2.25 mi N. and 0.5 mi E. of; 500 ft N., 48 ft W. and 6.7 ft lower than crossroad (Co. "K" N.-S.; Co. "E" E.), cor. secs. 30, 31, 25 and 36, T. 90 N., Rs. 42 and 43 W.; 15 ft N. of cor. post of jog in fence; 7 ft S. of steel witness sign; 1 ft E. of W. right-of-way fence, on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "18 T 1968 1395"	1395.537
55	3.7	UE; 18 ft S., 33 ft E. and 2.1 ft lower than crossroad, cor. secs. 24, 25, 19 and 30, T. 90 N., Rs. 42 and 43 W., 2.5 ft concrete tube culvert; X-mark, painted "UE"	1415.6
56	4.7	UE; 33 ft N., 20 ft E. and 0.5 ft lower than crossroad, cor. secs. 18, 19, 13 and 24, T. 90 N., Rs. 42 and 43 W.; 2.5 ft concrete tube culvert; chiseled square, painted "UE"	1406.13
57	5.8	Reference mark; 138 ft SSE. of tablet; 21 ft N., and 50 ft E. of T-rd. E.; 2.5 ft concrete tube culvert; chiseled square, painted "RM"	1398.72
58	5.8	Pierson, 5.25 mi N. and 0.5 mi E. of; 153 ft N., 33 ft E. and 9.9 ft lower than T-rd. E., cor. secs. 12, 13, 7 and 18, T. 90 N., Rs. 42 and 43 W.; 6 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 "19 T 1968 1390"	1389.806
59	6.8	UE; center of crossroad (Co. C 60 E.-W.), cor. secs. 1, 12, 6 and 7, T. 90 N., Rs. 42 and 43 W.; copper nail and washer, painted "UE Centerline"	1331.44
60	7.9	UE; 34 ft N., 20 ft W. and 2.9 ft lower than crossroad (dim W.), cor. secs. 36, 31, 1 and 6, Tps. 90 and 91 N., Rs. 42 and 43 W.; 3 ft concrete tube culvert; chiseled square, painted "UE"	1307.60
61	9.0	Reference mark; 259 ft S. of tablet, 21 ft N., and 32 ft W. of T-rd. W.; 3.5 ft corr. steel culvert; X-mark, painted "RM"	1256.94
62	9.0	Pierson, 8.25 mi N. and 0.5 mi E. of; 280 ft N., 38 ft W. and 2.4 ft lower than T-rd. W., cor. secs. 25, 36, 30 and 31, T. 91 N., Rs. 42 and 43 W.; 14 ft N. of steel witness sign; 1 ft E. of W. right-of-way fence, on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "20 T 1968 1256"	1256.415
63	10.0	UE; 28 ft N., 20 ft W. and 1.9 ft lower than crossroad, cor. secs. 24, 25, 19 and 30, T. 91 N., Rs. 42 and 43 W.; 2.5 ft corr. steel culvert; punch hole; painted "UE"	1302.66
64	11.0	UE; center of crossroad (Co. C 44 E.-W.), cor. secs. 13, 24, 18 and 19, T. 91 N., Rs. 42 and 43 W.; copper nail and washer, painted "UE Centerline"	1361.9
65	12.0	Reference mark; 336 ft S. of tablet, 27 ft S., 33 ft W. of crossroad; power pole, N. side; painted "RM"	1417.63
66	12.1	Marcus, 8.5 mi S. and 2.5 mi W. of; 309 ft N., 34 ft W. and 5.7 ft lower than crossroad, cor. secs. 12, 13, 7 and 18, T. 91 N., Rs. 42 and 43 W.; 13 ft S. of steel witness sign; 1 ft E. of W. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "21 T 1968 1415"	1414.870

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KINGSLEY QUADRANGLE
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FEET

LINE 2 (Cont'd)

KINGSLEY QUAD. - 208

- 3 67 13.1 UE; 24 ft N., 21 ft E. and 2.1 ft lower than crossroad, cor. secs. 1, 12, 6 and 7, T. 91 N., Rs. 42 and 43 W.; 2.5 ft corr. steel culvert; punch hole, painted "UE" 1364.27
- 68 14.1 UE; 18 ft S., 25 ft W. and 1.5 ft lower than crossroad, cor. secs. 36, 31, 1 and 6, Tps. 91 and 92 N., Rs. 42 and 43 W.; 2.5 ft corr. steel culvert; punch hole, painted "UE" 1420.15
- 69 15.2 Reference mark; 171 ft SSE. of tablet, 30 ft N. and 60 ft E. of crossroad; 4 x 4 ft concrete box culvert; center N. headwall; chiseled square, painted "RM" 1400.40
- 70 15.2 Marcus, 5.5 mi S. and 2.5 mi W. of; 201 ft N., 37 ft E. and 8.5 ft lower than crossroad, cor. secs. 25, 36, 30 and 31, T. 92 N., Rs. 42 and 43 W.; 201 ft N. center of Co. Hwy. C 38; 6 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 "22 T 1968 1397" 1396.961

REMSEN QUAD. - 231

- 71 16.2 UE; 21 ft N., 23 ft W. and 2.0 ft lower than crossroad, cor. secs. 24, 25, 19 and 30, T. 92 N., Rs. 42 and 43 W.; 3 ft corr. steel culvert; punch hole, painted "UE" 1405.88

LINE 3

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

UNION CENTER QUAD. - 209

- 0.0 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. cor. of secs. 25, 26, 35 and 36, 311 ft S. from cor. 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 ft" 1433.812
- 0.4 UE 27 D; 0.4 mi S. of tablet, along gravel rd., T. 92 N., R. 44 W., at quarter cor. between secs. 35 and 36, center of rd. opposite cross fences "UE Centerline 1405.3" 1405.4
- 0.9 UE 27 E; 0.9 mi S. of tablet, along gravel rd., Tps. 91 and 92 N., R. 44 W., at cor. secs. 1, 2, 35 and 36, 34 ft S., 36 ft W. and 5.1 ft lower than center of crossroads a rail spike in W. side of power pole, projecting 6 in. above ground, "UE Centerline 1365.4" 1365.50
- 1.4 UE 27 F; 1.4 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., near quarter cor. between secs. 1 and 2, center of rd. opposite T-fence E., "UE 1335.9" 1336.0
- 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, "UE 1327.0" 1327.01
- 2.4 UE 27 H; 2.4 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., at quarter cor. between secs. 11 and 12, center of rd. opposite T-fence W. "UE Centerline 1327.9" 1327.9
- 3.0 Remsen, 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. cor. 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 ft" BM 1317.8 1317.813

FEET

LINE 3 (Cont'd)

UNION CENTER QUAD. - 209

- 3.5 UE 39 A; 0.5 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., near quarter cor. between secs. 13 and 14, center of rd., opposite T-fence E., "UE Centerline 1302.8" 1302.9
- 3.9 Remsen, 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 tablet stamped "US Coast and Geodetic and State Survey Station 1164", this mark projects about 2.5 ft above ground, BM 1306.3 Elev. by USGS (Reported disturbed 9/67 JHT) 1306.355
- 4.5 UE 1164 A; 0.6 mi W. of disk, along gravel rd., T. 91 N., R. 44 W., at quarter cor. between secs. 14 and 23, center of rd. opposite cross fences, "UE Centerline 1364.5" 1364.6
- 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 rail spike in S. side of power pole, projecting 6 in. above ground "UE 1402.9" 1402.91
- 5.6 UE 1164 C; 1.1 mi W. and 0.5 mi S. of disk, along gravel rd., T. 91 N., R. 44 W., at quarter cor. between secs. 22 and 23, center of rd. opposite cross fences, "UE Centerline 1357.7" 1357.8
- 6.1 Reference mark; 230 ft NE. of tablet, 32 ft N., 28 ft E. from center of crossroads, a rail spike in W. side of power pole, projecting 6 in. above ground "RM 1341.0" 1341.03
- 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 cor. 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 ft" BM 1339.6 (Reported destroyed 12/62 RBM) 1339.673
- 6.6 UE 40 A; 0.5 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., at quarter cor. between secs. 26 and 27, center of rd. opposite cross fences "UE 1351.7" 1351.79
- 7.1 UE 40 B; 1.0 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., at cor. of secs. 22, 23, 26 and 27, 20 ft S., 27 ft W. and 2.7 ft lower than center of crossroads, on the S. end of a 24 in. steel pipe culvert; a painted square, "UE 1317.0" 1317.0
- 7.6 UE 40 C; 1.5 mi S. of tablet, along gravel rd., T. 91 N., R. 44 W., at quarter cor. between secs. 34 and 35, center of rd. at T-fence W., "UE Centerline 1333.6" 1333.7
- 9.1 Kingsley, 5.0 mi NW. of along Co. Hwy. "L", from intersection with State Hwy. 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 ft" BM 1391.6 (Reported destroyed 6/60 FCS) 1391.635
- 9.2 Reference mark, 568 ft S., SW. of tablet, 31 ft S., 89 ft W. from intersection of crossroads, a rail spike in N. side of power pole, projecting 6 in. above ground, "RM 1375.1" 1375.17

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KINGSLEY QUADRANGLE
208 - IOWA

FEET

LINE 4

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

UNION CENTER QUAD. - 209

- 0.0 "BM 41 WHV 1957" (Described in Line 3) (Reported destroyed 6/60 (FCS) 1391.635
- 0.6 UE 41 F; 0.6 mi S. of tablet, along Co. Hwy. "L", T. 90 N., R. 44 W., at quarter cor. between secs. 10 and 11, center of hwy. opposite cross fences, top of $\frac{1}{2}$ in. iron rod flush with hwy., "UE Centerline 1359.7" 1359.70
- 1.1 UE 41 G; 1.0 mi S. of tablet, along Co. Hwy. "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 center of crossroads (Co. Hwy. "L" curves to SE.), on the N. end of a 24 in. concrete pipe culvert; a chiseled square, "UE 1325.0" 1325.00
- 1.7 UE 41 H; 1.7 mi S. of tablet, along Co. Hwy. "L", T. 90 N., R. 44 W., near center of sec. 14, center of rd. opposite N.-S. cross fences; a copper nail and washer, "UE Centerline 1315.0" 1315.00
- 2.5 UE 41 I; 2.5 mi S. of tablet, along Co. Hwy. "L", T. 90 N., R. 44 W., near cor. secs. 13, 14, 23 and 24, Co. Hwy. "L" turns E. along sec. line, 42 ft N., 145 ft W. and 1.9 ft higher than center of rds., at Y-rds., NE. and W., on the W. end of a 24 in. concrete pipe culvert; a chiseled square "UE 1273.0" 1273.01

KINGSLEY QUAD. - 208

- 2.7 Reference mark, 227 ft NW. of tablet, 28 ft S., 21 ft W. from center of hwy., at T-rd. S., on the W. end of a 24 in. concrete pipe culvert; chiseled square "RM 1229.3" 1229.30
- 2.8 Kingsley, 1.0 mi N. and 1.3 mi W. of, along Co. Hwy. "L", T. 90 N., R. 44 W., 255 ft S., 34 ft E. and 1.3 ft lower than center of hwy. at T-rd. S., about 0.1 mi E. from cor. 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 ft" BM 1230.8 1230.834
- 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, "UE 1198.6" 1198.61

UNION CENTER QUAD. - 209

- 4.5 UE 43 B; 1.8 mi S. of tablet, along gravel rd., T. 90 N., R. 44 W., at quarter cor. between secs. 25 and 26, 36 ft S., 32 ft W. and 2.6 ft lower than center of rd. at T-rd. S.; a rail spike in S. side of telephone pole projecting 6 in. above ground "UE 1206.2" 1206.24
- 5.3 UE 1220.7" 0.15 mi SW. along State Hwy. 140 from USC&GS "RV 22" (C. & N.W. Ry.), T. 90 N., R. 44 W., near approx. N. sixteenth cor. between secs. 35 and 36, center of State Hwy. 140 at crossroads; a chiseled square in pavement "UE 1220.7" 1220.655

LINE 5

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

KINGSLEY QUAD. - 208

- 0.0 USC&GS RV 22 (C. & N.W. Ry.) about 1.75 mi SW. along the C. & N.W. Ry. from Kingsley, Plymouth Co., about 265 ft NE. of MP 73 at culvert 1660 and in the top of the NE. end of the NW. stone headwall; a standard Monel rivet 1219.332

FEET

LINE 5 (Cont'd)

UNION CENTER QUAD. - 209

- 0.1 UE 1220.7; 0.15 mi SW. along State Hwy. 140 from disk, T. 90 N., R. 44 W., near approx. N. sixteenth cor. between secs. 35 and 36, center of State Hwy. 140 at crossroads, a chiseled square in pavement painted "UE 1220.7" 1220.655
- 0.9 UE 1299.1; 0.15 mi SW. along State Hwy. 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. cor. of secs. 1, 2, 35 and 36, on Woodbury-Plymouth Co. line, in base of E. side of a sprawling, leaning 12 in. maple tree; a copper nail and washer painted "UE 1299.1" 1299.08
- 1.3 UE Centerline 1284.1; 0.15 mi SW. along State Hwy. 140, thence, 1.15 mi S. along dirt section line rd. from disk, T. 89 N., R. 44 W., at approx. quarter cor. between secs. 1 and 2, center of rd. at fence lines E. and W., painted "UE Centerline 1284.1" 1284.07
- 1.8 UE 1318.8; 0.15 mi SW. along State Hwy. 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 center of State Hwy. 243 at crossroads, at approx. cor. of secs. 1, 2, 11 and 12, in top of N. end of 30 in. concrete pipe culvert; a chiseled square painted "UE 1318.8" 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 center of State Hwy. 243 at crossroads, at approx. cor. of secs. 1, 2, 11 and 12, 49 ft N. and 219 ft W. of center of State Hwy. 243, at private T-rd. S. to farmhouse, on crest of ridge, 1 ft S. of fence line and a 3 in. square metal marker tag on top of bank of steep cut in hwy., in concrete post; a standard Iowa Geodetic Survey BM tablet stamped "97-162" Elev. by USGS (Not found 9-68 JHT) 1358.185
- 2.1 USC&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. Murl Bogenraief, 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 have been removed and the mark is now located in open wheat field. Elev. by USGS 1430.863
- 2.1 USC&GS KINGSLEY Reference Mark No. 1 1950; mark is 86.38 ft distant from station in azimuth of: 266°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 USC&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 USC&GS reference mark disk stamped "KINGSLEY NO. 2 1950" 1429.570
- 2.4 UE Centerline 1359.5; 0.15 mi W. across field, thence 0.3 mi S. along gravel section line rd. from USC&GS Triangulation Station "KINGSLEY 1950", T. 89 N., R. 44 W., at approx. quarter cor. between secs. 11 and 12, center of rd. at fence rows E. and W., painted "UE Centerline 1359.5" 1359.5
- 3.0 UE 1298.1, 0.15 mi across field, thence 0.8 mi S. along gravel section line rd. from USC&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. cor. of secs. 11, 12, 13 and 14, in base of E. side of a 48 in. cottonwood tree, a rail spike painted "UE 1298.1" 1298.13

FEET

LINE 5 (Cont'd)

UNION CENTER QUAD. - 209

- 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 center of N.-S. section line rd. at fence lines E. and W., at approx. quarter cor. 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 BM tablet stamped "97-1348" Elev. 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. cor. 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. wingwall of bridge; a copper nail and washer painted "UE 1252.4" Water Elev. of McElhaney Creek (Measured down) 12/3/57 1232.874 1252.40
- 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 center of rd. at fence lines E. and W. and center of high voltage power line crossing, at approx. quarter cor. between secs. 23 and 24, on N. slope of hill, 167 ft N. and 31 ft E. of center at 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 BM tablet stamped "97-1349" Elev. by USGS (Reported destroyed 9/68 JHT) 1315.063
- 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 painted "RM" 1366.40
- 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. cor. of secs. 23, 24, 25 and 26, 197 ft E. of cor. post of fences S. and E., 197 ft W. of cor. 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) (Reported destroyed 11/62 RBM) 1375.824
- 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 cor. between secs. 23 and 26, 2 ft S. and 19 ft E. of cor. post of T-fence S., 25 ft S. and 165 ft E. of center of rd. at private driveway NW. of 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 BM tablet stamped "97-1451" Elev. 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. cor. 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 BM stamped "97-1448" Elev. by USGS 1260.512
- 6.6 UE Centerline 1223.8; 0.5 mi W. along section line gravel rd. from disk, T. 89 N., R. 44 W., at approx. quarter cor. between secs. 22 and 27, center of rd. at fence line N., painted "UE Centerline 1223.8" 1223.8
- 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. cor. 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. wingwall of bridge; a copper nail and washer painted "UE 1203.0" Water elev. of McElhaney Creek (measured down from floor of bridge 2/5/57 1188.600 1202.99

FEET

LINE 5 (Cont'd)

UNION CENTER QUAD. - 209

- 7.6 UE Centerline 1190.9; 1.5 mi W. along section line gravel rd. from disk T. 89 N., R. 44 W., at approx. quarter cor. between secs. 21 and 28, center of rd. at fence line N., painted "UE Centerline 1190.9" 1190.9
- 8.2 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. cor. of secs. 20, 21, 28 and 29, 321 ft S. and 26 ft W. of center of rd. at fence line E., opposite NW. cor. 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