

OFFICE COPY HOLD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

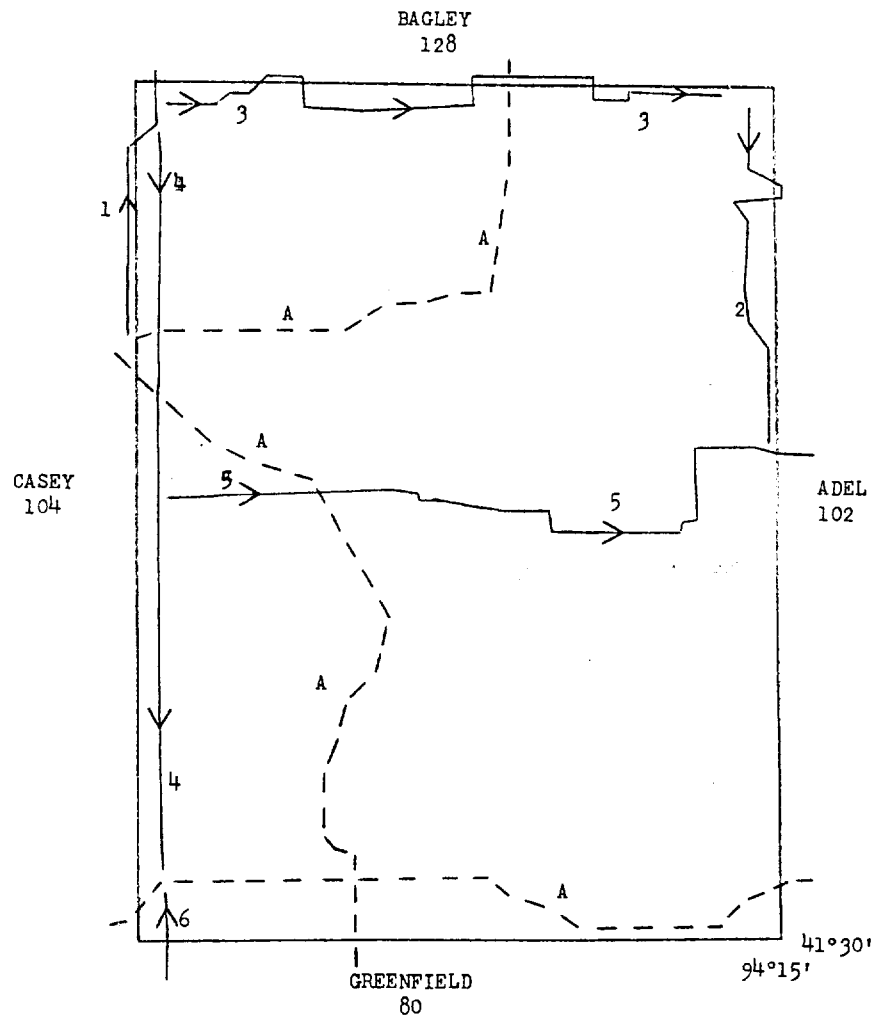
FINAL ADJUSTMENT OF 1969

Dallas and Guthrie Counties

Edition of: 5-31-79

PR:AKH/PH/gh

PANORA QUADRANGLE
103 - IOWA
N4130-W9415/15
DIAGRAM NK 15-7
OMAHA



USC&GS VERTICAL CONTROL DATA
Quadrangle 410941

103 C

LINE 1

FEET

P. J. Hohenberger, 1969; Book CV 2338

CASEY QUAD. - 104

6	1	0.0	UE 39-45 A, 0.3 mi S. of tablet, on State Hwy. 25, in NE. concrete guard rail wing, old bridge across South Raccoon River; chiseled square	1074.84
	1	0.3	UE 39-45 AA, at center of crossroads at Guthrie Center (State Hwys. 44 and 25)	1116.8
	1	0.8	UE Guthrie A, about 0.55 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, about 300 ft E. of a school, 290 ft N., 34 ft E. and 8.5 ft higher than intersection of hwy. and Oak Street, on top, in center of E. headwall of a concrete culvert (slanted NE.-SW.) an I.H.C. brass plug (elev. by USGS)	1150.38
	2	1.5	UE Guthrie B, about 1.35 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, just NW. of a farmhouse, 125 ft N., 34 ft E. and 2.5 ft lower than hwy. at drive E., on top, in center of E. headwall of a concrete box culvert; a brass oval-head plug	1222.93
	3	2.2	UE Guthrie C, about 2.1 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at Guthrie Center, 700 ft N., 52 ft W. and 6.8 ft lower than crossroads, on top, in center of W. headwall of a concrete box culvert; an I. H. C. brass plug (elev. by USGS)	1172.13
	4	3.0	Guthrie Center, Guthrie County, 2.7 mi N. along State Hwy. 25 from jct. with State Hwy. 44 at; T. 80 N., R. 31 W., near the NW. cor. of the E $\frac{1}{2}$ sec. 30, 508 ft S., 69 ft E. and 1.9 ft higher than crossroads, 130 ft S. of a wooden right-of-way marker (#115), 5.5 ft N. of a power pole painted "B.M.", 1.5 ft S. of a witness sign, 1.0 ft W. of a fence; a standard tablet crimped to the top of a copper rod stamped "63 PJH 1969" (431 ft S. of a fence corner S.-E.)	1125.490
	5	3.0	Reference mark, 231.5 ft NW. of B.M., 34.5 ft W. of hwy., on top, in center of W. headwall of a concrete box culvert; an I. H. C. brass plug (elev. by USGS)	1116.89
	5	3.6	UE 63 PJH A, about 0.6 mi N. along Hwy. 25 from B.M., at SW. corner of a steel and concrete bridge, 15 ft W. and 0.6 ft higher than Hwy. at S. end of bridge, on top of W. end of SW. wingwall; a chiseled square	1083.11

PANORA QUAD. -103

6	4.3	UE 63 PJH B, about 1.3 mi N. along State Hwy. 25 from B.M., 29 ft N., 48 ft W. and 1.5 ft lower than T-rd. NW., on top of N. end of a 4.0 ft cement pipe culvert; a chiseled square	1107.23
7	5.2	UE 63 PJH C, 200 ft S. and 10.3 ft lower than T-rd. E., T. 80 N., R. 31 W., at the NE. cor. sec. 18, on W. side of Hwy. 25, on top, in center of W. headwall of a concrete culvert; an I.H. C. brass plug (elev. by USGS)	1173.75
8	5.7	UE 63 PJH D, about 2.8 mi N. along State Hwy. 25 from B.M., at quarter cor. between secs. 7 and 8, 300 ft S., 34 ft E. and 5.8 ft higher than T-rd. W., top, in center of E. headwall of a concrete culvert; an I.H.C. brass plug (elev. by USGS)	1157.13
8	6.5	UE 63 PJH E, 3.65 mi N. along Hwy. 25 from B.M., 120 ft N. and 4.2 ft higher than T-rd. W., on E. side of hwy., top of concrete culvert; an I. H. C. brass plug (elev. by USGS)	1196.90

LINE 1 (Cont'd)

BAGLEY QUAD. - 128

FEET

- 6 8 6.9 UE 63 PJH F, 3.95 mi N. along Hwy. 25 from B.M., 0.3 mi N. of UE 13 B, on W. side of hwy., top of concrete culvert; an I. H. C. brass plug (elev. by USGS) (NOTE: UE is 2.4 ft lower than hwy.) 1225.46
- 32 7.6 Guthrie Center, about 6.5 mi N. of; along State Hwy. 25, about 0.2 mi N. of cor. secs. 5, 6, 31 and 32, T. 81 N., R. 31 W., on N. end of bridge over Battle Run Creek, 12.5 ft W. of center of bridge, about 6 in. above bridge floor in NW. wingwall; standard tablet stamped "13 JDF 1953" 1069.328
- 33 17.2 Reference mark, about 230 ft S. of tablet, on SE. wingwall of bridge; chiseled square 1072.09

O. E. Caruthers, 1948; Book CV 154

LINE 2

PANORA QUAD. - 103

- 6.8 Minburn, 12.0 mi W. and 0.5 mi S. from, near SW. cor. SE $\frac{1}{4}$ sec. 8, T. 80 N., R. 29 W., 37 ft N. and 25 ft E. of center of crossroads, 10 ft N. of E.-W. fence line, 2 ft E. of N.-S. fence line, at Prairie Center Methodist Church corner, in concrete post; standard tablet stamped "11 OC 1948" 1036.882
- 6.8 Reference mark, 145 ft S. and 52 ft E. of center of crossroad, at SW. corner of Prairie Center Church, in S. side of lower concrete step; chiseled square 1040.94

ADEL QUAD. - 102

- 9.0 Linden, 1.0 mi E. thence 5.0 mi N. from, near N. quarter cor. secs. 29, T. 80 N., R. 29 W., 22 ft S. and 163 ft E. from small steel bridge over Mesquite Creek, 22 ft S. and 3 ft E. from crossroads, 3 ft SE. of REA pole #42, in concrete post; standard tablet stamped "12 OC 1948" 1012.063
- 9.0 Reference mark, 149 ft W. of tablet, in SE. wingwall of steel bridge over Mesquite creek, in 12-in. piling post; copper nail and washer 1007.20

PANORA QUAD. - 103

- 10.0 Linden, 1.0 mi E., thence 4.0 mi N. from, at SE. cor. SW $\frac{1}{4}$ sec. 29, T. 80 N., R. 29 W., 415 ft N. and 25 ft W. of center of crossroads, 1 ft E. of W. fence line, in E. base of power pole; rail spike 1028.7
- 11.1 Linden, 1.0 mi E. and 3.0 mi N. from, at crossroads, near NE. cor. sec. 5, T. 79 N., R. 29 W., 63 ft S. of center of Hwy. 64, 26 ft W. of center of N.-S. section line rd., 11 ft S. of E.-W. fence, 6 ft W. of N.-S. fence, 3 ft E. of power pole, in concrete post; standard tablet stamped "TT 16 MT" 1021.279
- 11.1 Reference mark, 254 ft S. of tablet, 25 ft W. of center of N.-S. gravel rd., in E. base of power pole; rail spike 1019.49
- 12.1 Linden, 2.0 mi N., thence 1.0 mi E. from, near SW. cor. SE $\frac{1}{4}$ sec. 5, T. 79 N., R. 29 W., 98 ft N. and 31 ft W. of center of T-rd. E., 4 ft E. of W. fence line, in E. base of telephone pole; rail spike 1013.31
- 13.2 Linden, 1.0 mi E. thence 1.0 mi N. from, at West Linn Cemetery, 154 ft S. of NE. corner of cemetery fence, 27 ft E. of center of N.-S. rd., in W. base of a telephone pole; rail spike 1053.7
- 13.8 Linden, 1.0 mi E. of, near quarter cor. between secs. 17 and 20, T. 79 N., R. 29 W., 0.3 mi N. of crossroads, 133 ft N. of T-fence W. (extended), 28 ft E. of center of rd., 1 ft E. of fence, in concrete post; standard tablet stamped "TT 15 MT 1948" 1067.008
- 15.1 Linden, 1.0 mi E. and 0.5 mi S. from, near SW. cor. SE $\frac{1}{4}$ sec. 20, T. 79 N., R. 29 W., 905 ft N. of Chicago, Minneapolis, St. Paul and Pacific RR. crossing, 29 ft S. of center of rd., at W. fence line, in base of N. gate post of driveway to farmhouse; chiseled square 1107.06

LINE 2 (Cont'd)

PANORA QUAD. - 103

FEET

- 16.3 Linden, 1.7 mi E. and 1.5 mi S. from, 0.2 mi E. of W. center sec. 28, T. 79 N., R. 29 W., 775 ft W. of curve in rd., rds. W. and S., 110 ft E. of center of driveway to farmhouse, 29 ft S. of center of rd., in N. base of an REA pole; rail spike 1077.3

LINE 3

J. J. Ozmun, 1951; Book CV 488

CASEY QUAD. - 104

- 2.7 Guthrie Center, 2.7 mi N. of, along State Hwy. 25, at intersection of State Hwys. 25 and 64, NW. cor. sec. 30, T. 80 N., R. 31 W., 471 ft S. and 47 ft E. of crossroads, 39 ft N. of telephone pole, 0.5 ft W. of fence, in concrete post; standard tablet stamped "TT 1 JO 1951" (reported not found 3/69 PJH) 1123.217

PANORA QUAD. - 103

- 4.6 UE 1 C, 4.5 ft S., 43 ft W. and 1 ft higher than intersection of angle rd. SE., in power pole; rail spike 1229.6
- 5.0 Guthrie Center, 4.9 mi N. of along State Hwy. 25, at intersection of State Hwys. 25 and 64, NW. cor. sec. 17, T. 80 N., R. 31 W., 81 ft S., 51 ft E. and 3 ft lower than center of intersection of State Hwy. 25 and County Hwy. "B", in concrete post; standard tablet stamped "TT 2 JO 1951" (reported not found 3/69 PJH) 1175.980
- 5.8 UE 2 A, 0.8 mi E. of tablet, 15.4 ft N. of center of rd., 1.5 ft lower than center of rd., N. end of concrete culvert; chiseled square 1165.29
- 6.0 UE 2 B, 17.5 ft S., 38 ft E. and 1.5 ft lower than intersection of angle rd. SW., 98.5 ft SW. from SW. corner of house, in power pole; rail spike 1096.2
- 6.5 Guthrie Center, 4.9 mi N. and 1.5 mi E. from; at intersection of State Hwys. 25 and 64, on County Hwy. "B", near center SW $\frac{1}{4}$ sec. 9, T. 80 N., R. 31 W., 244 ft E. and 30.6 ft S. of T-rd. N., 3 ft higher than center of rd. opposite tablet, in concrete post; standard tablet stamped "TT 3 JO 1951" 1073.421
- 6.5 Reference mark, 151 ft W. of tablet, level with center of rd., in power pole; rail spike 1077.66

BAGLEY QUAD. - 128

- 6.9 UE 3 A, W. end of steel bridge, on S. end of wood and steel support beam, 15.5 ft W. of steel superstructure; painted square 1043.5
- 7.1 UE 3 B, 33.5 ft N. of center of rd., 88 ft NW. from NW. corner of Fansler store, in power pole; rail spike 1079.1
- 7.9 UE 3 C, W. end of N. headwall of concrete culvert, 1 ft lower than center of rd.; chiseled square 1128.85
- 8.3 Guthrie Center, 5.2 mi N. and 3.1 mi E. from, at intersection of State Hwys. 25 and 64, on County Hwy. B, near quarter cor. between secs. 10 and 11, T. 80 N., R. 31 W., 3.5 ft N., 43.5 ft E. and 0.5 ft higher than intersection of T-rd. W., in concrete post; standard tablet stamped "TT 4 JO 1951" 1145.156
- 8.4 Reference mark, 229.5 ft S. and 80.5 ft W. of tablet, level with center of N.-S. rd. opposite mark, in power pole; rail spike 1146.39

PANORA QUAD. - 103

- 8.9 UE 4 A, 0.5 mi S. and 0.1 mi E. from tablet, 172 ft W. and 15 ft N. of intersection of T-rd. S., 3 ft lower than center of rd. opposite mark; top of corrugated steel culvert 1164.2

<u>LINE ? (Cont'd)</u>	<u>PANORA QUAD. - 103</u>	<u>FEET</u>
9.5 UE 4 B, about 1.0 mi SE. of tablet, 22 ft S. of center of rd., 1 ft lower than center of rd. opposite mark; top of concrete culvert		1165.6
10.0 UE 4 C, about 1.5 mi SE. of tablet, 25 ft W. and 22 ft S. of intersection of T-rd. S., level with intersection of T-rd., in corner fence post; rail spike		1129.7
10.5 Guthrie Center, 4.9 mi N. and 5.0 mi E. from, at intersection of State Hwys. 25 and 64, NE. cor. sec. 13, T. 80 N., R. 31 W., 0.2 mi W. and 38 ft S. of crossroads, 2.5 ft lower than center of rd. opposite tablet, in concrete post; standard tablet stamped "TT 5 JO 1951"		1123.961
10.4 Reference mark, 60 ft N. and 287 ft W. of tablet, 1.5 ft lower than center of rd. opposite mark; top of corrugated steel culvert		1126.67
10.9 UE 5 A, 0.4 mi E. of tablet, 11 ft N. of center of rd., top of W. end of N. headwall of concrete bridge; chiseled square		1071.22
11.7 UE 5 B, 1.1 mi E. of tablet, 25 ft N. of center of rd., 4 ft higher than center of rd., opposite mark, in telephone pole; rail spike		1125.4
12.3 Yale, about 2.0 mi S. and 0.5 mi W. of quarter cor. secs. 8 and 17, T. 80 N., R. 30 W., 5 ft N. and 62 ft E. of State Hwy. 17 at T-rd. W., in concrete post; standard tablet stamped "TT 6 JO 1951 RESET 1957"		1166.307
12.3 Reference mark, 31 ft S. and 71 ft W. of tablet, 1 ft higher than center of N.-S. rd. opposite mark, in power pole; rail spike		1169.84
12.8 UE 6 A, 0.5 mi N. of tablet, 22 ft S. and 28 ft E. of intersection of T-rd. E. with State Hwy. 17, 1 ft higher than intersection in telephone pole; rail spike		1162.0
13.3 UE 6 B, 0.5 mi N. and 0.5 mi E. of tablet, 20 ft N. of center of rd., on corrugated metal pipe across lane to farmhouse, third depression from E. end of pipe		1140.9

BAGLEY QUAD. - 128

0.0 Yale, Guthrie County, 1.5 mi S. along the Chicago, Milwaukee, St. Paul & Pacific RR. from the station at; at the E.-W. quarter line of sec. 9, T. 80 N., R. 30 W., at a rd. crossing, 43 ft W. of the center of the track, 35 ft S. of the center of the rd., 7 ft E. of a fence corner, and about 3.5 ft higher than the track; USC&GS standard disk stamped "P 102 1935" and set in the top of a concrete post	1145.352
0.3 UE P 102 A, 0.3 mi E. of tablet, 32 ft N. and 26 ft E. and 1 ft higher than intersection of crossroad, in power pole; rail spike	1142.5
0.8 UE P 102 B, 24 ft N. of rd. at entrance to farmhouse, W. end of 24-in. corrugated iron culvert;	1072.4
5.9 Yale, 1.5 mi S. and 4.0 mi E. of, 380 ft S. from quarter cor. between secs. 7 and 12, T. 80 N., Rs. 29 and 30 W., 33 ft W. of center of rd. and 10 ft N. of power pole, in concrete post; standard tablet stamped "TT 9 JO 1951"	1113.194
5.9 Reference mark, 180 ft S. of tablet, in power pole; rail spike	1113.69

PANORA QUAD. - 103

6.4 UE 9 A, 0.4 mi S. and 0.03 mi E. of "TT 9 JO 1951", 32 ft S. of center of rd., in power pole; rail spike	1108.3
7.0 UE 9 B, 0.4 mi S. and 0.6 mi E. of tablet, 30 ft S. of center of rd. and level with rd., in power pole; rail spike	1076.6
7.4 UE 9 C, 0.4 mi S. and 1.0 mi E. of tablet, center of crossroads, near T. 80 N., R. 29 W., cor. secs. 7, 8, 17 and 18	1055.2

LINE 4

FEET

J. J. Ozmun, 1951; Book CV 488

CASEY QUAD. - 104

- 2.3 39-45 (Iowa Geodetic Survey), 2.3 mi S. of, Guthrie Center, at intersection of Hwys. 25 and 64 and 2.3 mi S., T. 79 N., R. 31 W., quarter cor. between secs. 18 and 19, intersection of rds. E.-W. with State Hwy. 25 at; 350 ft S. of intersection and 52 ft W. of center of Hwy., 6 ft E. of N.-S. fence and 5 ft NE. of power pole, in concrete post; standard tablet stamped "TT 10 JO 1951" 1220.550
- 3.1 UE 10 A, 0.8 mi SE. of tablet, along State Hwy. 25, 65 ft E. of center of hwy., on S. slope of field entrance, on rock; painted square 1156.4
- 3.3 UE 10 B, 0.9 mi S. and 0.2 mi E. of tablet, along Hwy. 25, 45 ft W. of center of Hwy., 25 ft SE. of center of T-rd. W., on last rib on S. end of 18-in. corrugated metal pipe 1150.2

PANORA QUAD. - 103

- 3.9 UE 10 C, 1.3 mi S. and 0.5 mi E. of tablet, along State Hwy. 25, 50 ft E. of center of hwy., under field entrance, on last rib of N. end of 24-in. corrugated metal pipe 1177.8
- 4.6 Guthrie Center, at jct. of Hwys. 25 and 64 and 4.3 mi S. and 0.5 mi E., T. 79 N., R. 31 W., cor. secs. 29, 30, 31 and 32, intersection of rds. E.-W. with State Hwy. 25, 715 ft S. of intersection and 100 ft W. of center of hwy., 4 ft NNW. of power pole, in concrete post; standard tablet stamped "TT 11 JO 1951" 1232.399
- 4.5 Reference mark, 415 ft N. and 130 ft E. of tablet, along State Hwy. 25, 30 ft E. of center of hwy., on top of E. headwall of 6 x 6 ft concrete box culvert; brass plug 1242.22
- 5.4 UE 11 A, 0.8 mi SSE. of tablet along State Hwy. 25, in retaining wall of NW. corner of bridge across Beaver Creek; chiseled square 1125.71
- 6.1 UE 11 B, 1.5 mi SSE. of tablet, along State Hwy. 25, 100 ft NE. of small house, 36 ft W. of center of hwy., in top of 24-in. concrete pipe; chiseled square 1222.50
- 6.5 UE 11 C, 1.9 mi SSE. of tablet, along State Hwy. 25, 300 ft NE. of farmhouse, 45 ft W. of center of hwy., under field entrance, 4 ft lower than center of rd. opposite, on N. end of 18-in. corrugated culvert 1217.5
- 7.2 Guthrie Center, at intersection of Hwys. 25 and 64, 7.05 mi S. and 0.5 mi E., T. 78 N., R. 32 W., cor. secs. 1, 2, 11 and 12, intersection of rds. E.-W. with center of State Hwy. 25, 132 ft N. of intersection and 68 ft W. of center of Hwy., 10 ft S. of power pole, 48 ft NNE. of NE. corner of schoolhouse, in concrete post; standard tablet stamped "TT 12 JO 1951" (Reported erroneously stamped 1204.6) 1304.811
- 7.2 Reference mark, 60 ft S. and 15 ft W. of tablet, in NE. corner of lowest concrete step to schoolhouse; chiseled square 1305.09
- 7.9 UE 12 A, 0.7 mi S. of tablet, along State Hwy. 25, 75 ft E. of center of Hwy., in telephone pole; rail spike 1237.5
- 8.6 UE 12 B, 1.35 mi S. of tablet, along State Hwy. 25, 400 ft NNE. of farmhouse, 25 ft W. of center of hwy., top of 24-in. concrete culvert pipe; level with center of hwy., chiseled square 1234.66
- 8.9 UE 12 C, 1.7 mi S. of tablet, along State Hwy. 25, 100 ft SW. of farmhouse, 45 ft E. of center of rd., 3 ft lower than center of Hwy., in yard pole; rail spike 1204.2
- 9.4 Menlo, at intersection of U. S. Hwy. 68 and County Hwy. "N", 2.0 mi N. and 4.5 mi W., T. 78 N., R. 32 W., cor. secs. 13, 14, 23 and 24, intersection of rd. W. with center of State Hwy. 25, 475 ft S. of intersection and 86 ft E. of center of Hwy. and 5 ft lower than center of Hwy. opposite tablet, 30 ft S. of schoolhouse, 1.5 ft N. of E.-W. fence, 13 ft E. of N.-S. fence, 15 ft E. of telephone pole, in concrete post; standard tablet stamped "TT 13 JO 1951" 1199.625

<u>LINE 4 (Cont'd)</u>	<u>PANORA QUAD. - 103</u>	<u>FEET</u>
9.3 Reference mark, 42 ft N. and 18 ft W. of tablet, in NW. corner of lowest step to schoolhouse; chiseled square		1199.48
9.8 UE 13 A, 0.3 mi S. of tablet, along State Hwy. 25, near T. 78 N., R. 32 W., quarter cor. between secs. 23 and 24, 26 ft E. of center of Hwy. at NE' corner of intersection of private T-rd. E., 1 ft lower than center of Hwy., on E. headwall of 2 x 2 ft concrete box culvert; across Hwy. 25; chiseled cross		1294.82
10.2 UE 13 B, 0.9 mi S. of tablet, along State Hwy. 25, 250 ft NNE. of T. 78 N., R. 32 W., cor. between secs. 23, 24, 25 and 26, 33 ft E. of and 1 ft lower than center of hwy., across drive to farmhouse, on N. end of 15-in. corrugated iron culvert		1325.6
10.8 UE 13 C, 1.4 mi S. of tablet, 200 ft NE. of farmhouse, at intersection of driveway W. and State Hwy. 25, 20 ft N. and 34 ft W. of and 2 ft lower than center of rd., on W. headwall of 2 x 2 ft concrete box culvert, top of Iowa Hwy. Commission brass plug elevation marker (elev. by USGS)		1287.35
11.3 UE 13 D, 2.0 mi S. of tablet, center of intersection of U. S. Hwy. 6 and State Hwy. 25 N. and County Hwy. "S"		1283.5
12.0 UE 13 E, 2.0 mi S. and 0.6 mi W. of tablet, 2 ft N. of N. side of pavement of U. S. Hwy. 6, in NE. concrete wing of bridge; chiseled hole		1222.18
13.3 Casey, at NW. corner of intersection of McPherson and Logan Streets, in Stone Foundation of store, 40.5 ft W. of SE. corner of building, 3 ft above sidewalk; USGS standard tablet stamped "1248.882" (elev. by USC&GS)		1249.131

LINE 5

<u>J. J. Ozmun, 1951; Book CV 488</u>	<u>PANORA QUAD. - 103</u>	
0.0 Glendon, 1.6 mi N. along the Chicago, Rock Island & Pacific RR. from the station at; 6 poles N. of milepost 411, at a rd. crossing, 25 ft W. of center of the track, 21 ft S. of the center of the rd., 33 ft NE. of a fence corner and 2 ft higher than the track; USC&GS standard disk stamped "W 102 1935" and set in the top of a concrete post		1121.760
1.1 UE W 102 A, 1.1 mi N. of tablet, at N. end of bridge 4122, on inside of W. rail on the last tie on the bridge; rail spike		1037.3
1.5 At Montieth, on the C. R. I. & P. RR. across the track from the S. end of the station, 9 ft W. of the center of track; due W. of old location of "V 102 1935"; USC&GS standard disk stamped "V 102 RESET 1959"		1039.762
0.5 UE V 102 A, 0.5 mi E. of "V 102 1935" along County Hwy. "J", on steel support across the W. end of bridge across S. Raccoon River; NW. rivethead		1022.0
1.1 UE V 102 B, 1.1 mi E. of "V 102 1935" near cor. of T. 79 N., R. 31 W., quarter cor. between secs. 24 and 25, intersection of T-rd. N., with County Hwy. "J" and 34 ft N. and 163 ft W. of, in power pole; rail spike		1034.0
1.7 UE V 102 C, 1.7 mi E. of tablet, T. 79 N., Rs. 30 and 31 W., cor. between secs. 19, 24, 25, and 30, intersection of T-rd. N. with center of County Hwy. "J" and 18 ft S. and 30 ft E. of, in top of S. headwall of 3 x 3 ft concrete box culvert; chiseled square		1033.89
2.2 Montieth, 0.2 mi S. and 2.0 mi E. from along County Hwy. "J", in NW $\frac{1}{4}$ of T. 79 N., R. 30 W., sec. 30, 125 ft SW. of SW. corner of farmhouse of Kenneth Wheeler, 36 ft W. of center of County Hwy. "J", 1.5 ft S. of E.-W. fence, 2 ft E. of fence going N., in concrete post; standard tablet stamped "TT 16 JO 1951"		1023.960

<u>LINE 5 (Cont'd)</u>	<u>PANORA QUAD. - 103</u>	<u>FEET</u>
2.2 Reference mark, 70 ft S. and 70 ft E. of tablet, 25 ft S. of center of County Hwy. "J", in REA transformer pole; rail spike		1022.0
2.7 UE 16 A, 0.5 mi E. of tablet, along County Hwy. "J", 27 ft S. of center of rd., level with rd., in REA pole; rail spike		1022.8
3.1 UE 16 B, 1.0 mi E. of tablet, along County Hwy. "J", near T. 79 N., R. 30 W., near center of NW $\frac{1}{4}$ sec. 29, on N.-S. rd., just N. of hwy., on SE. bridge cap of wooden bridge; rail spike		1022.8
3.6 UE 16 C, 1.4 mi E. of tablet, 200 ft W. of, T. 79 N., R. 30 W., near center of NE $\frac{1}{4}$ sec. 29, 270 ft W. of small wooden bridge, 18 ft S. of center of dirt rd., in concrete fence post; rail spike		1158.7
4.2 UE 16 D, 2.0 mi E. of tablet, T. 79 N., R. 30 W., near center of NW $\frac{1}{4}$ sec. 28, intersection of T-rd. N. and 36 ft N. and 20 ft W., anchor fence post; rail spike		1169.9
4.3 USCG&GS Triangulation Station TRENT 1930; about 4.5 mi directly S. of Panora, on land owned by James Trent who lives 0.3 mi N. of station, in cultivated land 15.4 meters W. of the center of the latter rd. and 0.2 mi N. of a half-section-line rd., depressed 12 in. and 9.9 meters W. of fence		1179.857
4.3 Reference mark 1, on E. side of rd., directly opposite station, 5.7 meters E. of center of rd. and 0.46 meters W. of fence line		1180.991
5.2 UE Trent A, 0.2 mi S. and 0.7 mi E. of tablet, intersection of County Hwy. 5 with rd. W. and 25 ft N. and 96 ft W. of REA pole; rail spike		1149.3
5.7 UE Trent B, 0.7 mi S. and 0.7 mi E. of tablet, 29 ft NE. of white garage, 28 ft W. of center of County Hwy. "S", N.-S., in REA pole; rail spike		1163.6
6.1 UE Trent C, 0.7 mi S. and 1.1 mi E. of tablet, 25 ft S. of center of County Hwy. "S", 400 ft SW. of farmhouse, 200 ft S. of large red barn, 1.5 ft lower than center of rd., on last rib of W. end of 15-in. corrugated metal pipe culvert across field entrance		1138.9
6.8 Linden, 1.7 mi S. and 2.5 mi W. of, T. 79 N., R. 30 W., 38 ft S. and 127 ft W. of crossroads at quarter cor. between secs. 26 and 27, 26 ft N. and 42 ft E. of NE. corner of a church, in a concrete post; standard tablet stamped "TT 17 JO 1951 RESET 1956"		1153.396
6.7 Reference mark, 25 ft N. and 215 ft W. of tablet, SE. corner of lower step to schoolhouse; chiseled square		1151.77
7.2 UE 17 A, 0.4 mi E. of tablet, intersection of T-rd. N.		1142.1
7.7 UE 17 B, 0.9 mi E. of tablet, on S. side of rd. opposite farm entrance, in W. end of 15-in. concrete culvert; chiseled square		1094.1
8.4 UE 17 C, 1.6 mi E. of tablet, on top of SE. pier of bridge over middle Raccoon River; top of steel plate; painted square		964.5
9.1 Linden, 1.2 mi S. and 0.5 mi W. from; intersection of State Hwy. 292 with County Hwy. E.-W., T. 79 N., Rs. 29 and 30 W., near quarter cor. between secs. 25 and 30, 900 ft NNW. from small farmhouse, 33 ft E. of center of N.-S. rd., 3 ft E. of N.-S. fence line, 4 ft S. of fence line E., in concrete post; standard tablet stamped "TT 18 JO 1951"		1130.885
9.1 Reference mark, 180 ft S. of tablet, 40 ft W. of angle in rd., in power pole; rail spike		1132.21
9.6 UE 18 A, 0.5 mi N. of tablet, intersection of T-rd. E.		1136.7

LINE 5 (Cont'd)

PANORA QUAD. - 103

FEET

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| 10.3 | UE 18 B, 1.2 mi N. of tablet, 25 ft N. and 7 ft W. of T-rd. W., near cor. secs. 13, 18, 19 and 24, T. 79 N., Rs. 29 and 30 W., in corner power pole of power line S.-W.; rail spike | 1096.5 |
| 10.9 | UE 18 C, center of crossroads of State Hwy. 292 and rd. E.-W., in Linden, near quarter cor. between secs. 18 and 19, T. 79 N., R. 29 W., about 400 ft E. of RR. crossing rd. | 1120.4 |
| 11.8 | UE 18 D, center of crossroads, near quarter cor. between secs. 17 and 20, T. 79 N., R. 29 W. | 1069.5 |

LINE 6

J. D. Finch, 1953; Book CV 564

GREENFIELD QUAD. -80

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| 14.3 | Casey, 1.0 mi S. and 1.5 mi E. of; near cor. secs. 1, 2, 11 and 12, T. 77 N., R. 32 W., 260 ft N. of crossroads, 32 ft W. of center of rd., 1 ft S. of E.-W. fence, 15 ft W. of fence corner, 150 ft N. of front entrance of Walnut No. 1 School, set in concrete; standard tablet stamped "7 JDF 1953" | 1336.410 |
| 14.3 | Reference mark, 150 ft S. of tablet, at entrance to schoolhouse, in concrete step; chiseled square | 1318.60 |
| 14.6 | UE 7 A, 0.3 mi N. along gravel rd., in concrete headwall on W. side of rd.; chiseled square | 1261.44 |
| 15.3 | UE 7 B, 1.0 mi N. along gravel rd., 65 ft W. and 8 ft N. of center of Y-rd., on 6 x 6 in. wooden curbing on NE. corner of bridge over Middle River; end bolt | 1209.9 |

PANORA QUAD. - 103

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| 16.2 | UE 7 D, 1.9 mi N. along gravel rd., in NE. corner of wooden RR. bridge, nail in wooden cross member below the rd.; copper nail and washer | 1288.51 |
| 16.3 | UE 7 E, 2.0 mi N. along gravel rd., in hwy., at center of crossroads; painted square | 1283.8 |
| 17.0 | Casey, 1.3 mi NE. along U. S. Hwy. 6 from the C. R. I. & P. RR. station at; 15 ft E. of the center of the hwy., set in the top of the SE. wingwall of a steel bridge, 6.8 ft SE. of the SE. corner of the bridge, 0.5 ft below the level of the hwy. (reported destroyed 10/68 PJH) (USC&GS standard disk stamped "Q 162 1950") | 1221.809 |