

THIRD ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Carroll, Calhoun and Greene
Counties

FINAL ADJUSTMENT OF 1976

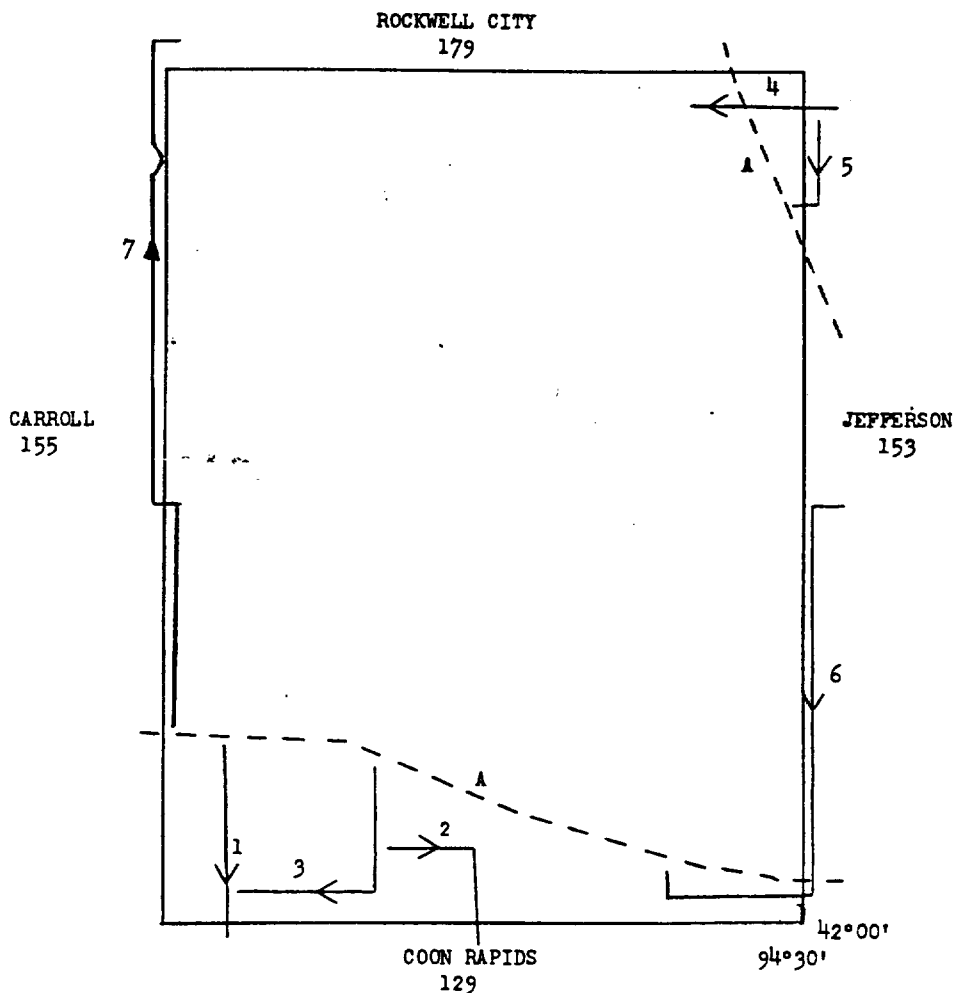
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICE COPY HOLD

42-094-32
GLIDDEN QUADRANGLE
154 - IOWA
N4200-W9430/15
DIAGRAM NK 15-4
FT. DODGE



154A

LINE 1

FEET

P. J. Hohenberger, 1969; Book CV 2338

GLIDDEN QUAD. - 154

- 4 56 0.0 Glidden, 0.9 mi W. along the Chicago & North Western RR. from the station at; at a rd. crossing, 36 ft E. of the center of the rd., 30 ft N. of the center of the N. track, 11 ft S. of a pole, and about 2 ft higher than track; USC&GS standard disk stamped "V 89 1935" and set in the top of a concrete post (NOTE: Previous elev. of 1225.024 could not be reconciled. Bench Mark appears to have been disturbed. This elev. by USGS) 1225.157
- 56 1.1 At Glidden, Carroll County, on the C. & NW. RR., 400 ft E. of the station, at the crossing of State Hwy. 286, 33 ft E. of the center of the hwy., 24 ft S. of the center of the S. track, 7 ft E. of the N. pole of a double pole, and about 1 ft lower than the track; USC&GS standard disk stamped "U 89 1935" and set in the top of a concrete post 1225.037
- 57 1.5 UE U 89 A, about 0.4 mi S. along paved rd. from B.M., set flush with pavement at crossroads; a rail spike 1218.96
- 58 2.0 UE U 89 B, about 1.4 mi S. along paved rd. from B.M., 35 ft N., 35 ft E. and 2.2 ft lower than crossroads, at a T-fence N., on top, in center of a square concrete fence post projecting 4.0 ft; a chiseled cross 1217.75
- 59 3.3 UE U 89 C, about 2.1 mi S. along paved rd. from B.M., 16 ft W. and 0.7 ft lower than rd., on top, in center of W. headwall of a concrete culvert; a chiseled square 1192.86
- 60 4.0 Reference mark, about 450 ft S. of B.M., 250 ft N., 14 ft E. and 2.0 ft lower than T-rd. W., on top, near center of E. headwall of a concrete culvert; a chiseled square 1215.83
- 61 4.0 Glidden, Carroll County, 2.85 mi S. of; T. 83 N., R. 33 W., near the N. sixteenth cor. between secs. 7 and 8, 700 ft N. of T-rd. W., 93 ft N., 38 ft E. and 1.9 ft lower than rd. at drive E., 30 ft N. and 82 ft W. of NW. corner of a farmhouse, 67 ft N. and 7.0 ft W. of a 2.0-ft diameter spruce tree, 55.5 ft N. of a power pole painted "B.M.", 3.5 ft S. and 1.0 ft W. of a T-fence E., 3.0 ft N. of a witness sign; a standard tablet crimped to a copper rod stamped "46 PJH 1969" 1213.121
- 62 4.5 UE 46 PJH A, about 0.65 mi S. along paved rd. from B.M., 1.0 ft E. of center of T-rd. E., set flush with pavement; a spike probably denoting section corner 1255.30

COON RAPIDS QUAD. - 129

- 62 5.6 UE 46 PJH B, about 1.7 mi S. along paved rd. from B.M., 495 ft S., 23 ft E. and 5.8 ft lower than crossroads, on top, in center of E. headwall of a concrete box culvert; a chiseled square 1242.22
- 63 6.0 UE 46 PJH C, about 2.1 mi S. along paved rd. from B.M., set flush with pavement at center of T-rd. E.; a rail spike 1232.36
- 64 7.1 Glidden, Carroll County, 6.15 mi S. along paved rd. from; T. 83 N., R. 33 W., near quarter cor. between secs. 29 and 30, at the top of a hill, 750 ft S. of crossroads, 4.0 ft S. and 39 ft W. of rd. at drive E. to farmhouse, 209 ft N. of drive W. to farmhouse, 127 ft N. and 1.3 ft E. of a fence corner N.-W., 54 ft S. of a T-fence W., 58 ft S. of a power pole painted "B.M.", 6.0 ft N. of a T-fence W., 2.0 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "47 PJH 1969" 1270.393

LINE 2

FEET

P. J. Hohenberger, 1969; Book CV 2338

GLIDDEN QUAD. - 154

- 5 37 0.0 Ralston, Carroll County, 1.8 mi W. along the C. & NW. RR. from the station at; 200 ft E. of a rd. crossing, at Bridge 780, at the N. end of the W. concrete abutment, in the top step, 7 ft N. of the center of the N. track, and about 1 ft lower than the track; USC&GS standard disk stamped "S 89 1935" 1173.108
- 37 0.8 UE S 89 A, about 0.8 mi S. along gravel rd. from B.M., about 400 ft N. of a farmhouse E. of rd., 14 ft W. and 0.5 ft lower than rd., on top, in center of W. headwall of a concrete box culvert; a chiseled square 1151.98
- 38 2.0 UE S 89 B, about 2.0 mi S. along gravel rd. from B.M., 13 ft S., 500 ft E. and 2.0 ft lower than crossroads, 21 ft SW. of center of small wooden bridge, set flush with top of a cut-off power pole used as bridge piling; a rail spike 1144.52
- 39 2.7 Scranton, Green County, 5.15 mi W. along gravel rd. from center of; T. 83 N., R. 33 W., near the SE. cor. sec. 2, 610 ft W. of crossroads, 35 ft N., 46 ft E. and 0.1 ft higher than rd. at drive N. to farm buildings, 1.25 ft N. and 55.5 ft W. of a T-fence N., 36 ft S. and 55 ft W. of a 2.0-ft diameter yellow pine tree, 2.0 ft S. and 23 ft E. of a 3.0 ft diameter oak tree, 1.5 ft S. and 5.5 ft E. of a power pole painted "B.M.", 1.25 ft W. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "53 PJH 1969" (NOTE: B.M. is 12.1 ft higher than crossroads) 1196.300
- 40 3.3 UE 53 PJH A, about 0.65 mi E. along gravel rd. from BM; 13 ft S. and 0.1 ft higher than rd., on top, in center of S. headwall of a concrete box culvert; a chiseled square 1135.07
- 40 4.0 UE 53 PJH B, about 1.15 mi E. along gravel rd. thence 0.15 mi S. along concrete rd. from BM, 750 ft S., 14.5 ft E. and 0.4 ft lower than crossroads, on top near center of a concrete culvert; a chiseled square 1115.64

COON RAPIDS QUAD. - 129

- 41 4.9 UE 53 PJH C, about 1.15 mi E. along gravel rd., thence 1.0 mi S. along concrete rd. from BM, at center of crossroads; a chiseled square 1160.94
- 42 5.8 UE 53 PJH D, about 1.15 mi E. along gravel rd. thence 2.0 mi S. along concrete rd. from BM, at center of crossroads, set flush with pavement between separation of blacktop and concrete; a rail spike 1173.13
- 42 6.1 Scranton, Greene County, 2.0 mi S. and 4.0 mi W. of center of; T. 83 N., R. 33 W., near the SE. cor. sec. 13, about 630 ft W. of crossroads, 42 ft N. and 107 ft E. of rd. at drive N., 126 ft S. and 28.5 ft E. of SE. cor. of farmhouse, 23 ft S. and 8.0 ft E. of a small spruce tree, 5.0 ft N. and 1.25 ft W. of a fence corner N.-E., 5.5 ft N. and 3.5 ft W. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "54 PJH 1969" 1173.653

LINE 3

P. J. Hohenberger, 1969; Book CV 2338

GLIDDEN QUAD. - 154

- 5 75 0.0 UE S 89 B (described in Line 2) 1144.52
- 75 1.1 UE S 89 C, about 1.0 mi S. along gravel rd. from UE S 89 B, 31 ft N., 24 ft E. and 1.9 ft lower than crossroads, on top of E. end of a 3.5 ft corrugated pipe culvert; a punch mark and painted square 1138.62
- 76 2.0 Glidden, Carroll County, 3.5 mi S. and 2.0 mi E. of; T. 83 N., R. 33 W., near the NE. cor. sec. 16, 341 ft S., 42 ft W. and 4.5 ft higher than crossroads, 18 ft S. of a drive W., 66.5 ft SE. of SE. corner of a farmhouse, 7.0 ft S. and 1.5 ft E. of a fence corner S.-W., 3.75 ft S. of a power pole painted "BM," 1.5 ft N. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "57 PJH 1969" 1207.250

<u>LINE 3 (Cont'd)</u>	<u>GLIDDEN QUAD. - 154</u>	<u>FEET</u>
5 77 2.3 Reference mark, about 0.3 mi W. along gravel rd. from B.M., 15 ft N. and 0.2 ft lower than rd., top of E. end of N. headwall (18 ft in length) of a concrete culvert; a chiseled square, painted "UE"		1206.22
77 3.1 UE 57 PJH A, about 1.0 mi W. from B.M. along gravel rd., 43 ft N., 15 ft E. and 2.3 ft lower than crossroads, on top of E. end of a 3.0-ft corrugated pipe culvert; a punch mark and painted square		1237.04
78 4.1 UE 46 PJH A (described in Line 1)		1255.30

LINE 4

<u>J. H. Tyndale, 1960; Book CV 1222</u>	<u>JEFFERSON QUAD. - 153</u>	
13.6 Reference mark, 144 ft ENE. of tablet, 34 ft N., 58 ft E. and 1.9 ft lower than crossroad, steel fence post projecting 0.8 ft above ground, 1 ft S. of N. right-of-way fence;		1140.63
13.6 Lehrville, about 2.0 mi S. and 2.0 mi E. of; 33 ft S. and 70 ft W. of crossroads at cor. secs. 19, 20, 29 and 30, T. 86 N., R. 31 W., 42 ft W. of fence corner in concrete post standard tablet stamped "TT 9 C 1936 1144" (Not found-prop. dest. 6/75 GS)		1143.662

GLIDDEN QUAD. - 154

14.9 Lehrville, 2.3 mi SE. from station at; along Chicago, Milwaukee, St. Paul and Pacific RR. near E. sixteenth cor. secs. 24 and 25, T. 86 N., R. 31 W., 4.1 ft higher than rd. crossing RR., 9 ft S. of fence corner, 1 ft W. of fence, in concrete post; standard USC&GS tablet stamped "N 101 1935" (40 ft S. and 46 ft E. of rd. crossing RR.)	1133.075
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LINE 5

<u>J. H. Tyndale, 1960; Book CV 1222</u>	<u>JEFFERSON QUAD. - 153</u>	
0.0 "TT 9 C 1936 1144" (described in Line 4)		1143.662

2.0 UE, 33 ft N., 29 ft W. and 0.6 ft lower than crossroads, cor. secs. 5, 6, 31 and 32, Tps. 85 and 86 N., R. 31 W., E. side power dead end pole, 0.5 ft above ground; RR. spike	1122.59
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GLIDDEN QUAD. - 154

2.5 Adaiza, 1.1 mi N. along the C. M. St. P. and P. RR. from the station at; near quarter cor. secs. 6 and 31, T. 85 N., R. 31 W., at a rd. crossing, 45 ft E. of center of RR. track, 30 ft S. of center of rd., 5 ft S. of a fence corner, 2 ft W. of fence line, and 1.7 ft lower than rd. crossing RR. track, in concrete post; standard USC&GS disk stamped "P 101 1935"	1119.903
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LINE 6

<u>J. H. Tyndale, 1960; Book CV 1222</u>	<u>JEFFERSON QUAD. - 153</u>	
0.0 Churdan, 2.3 mi S. of along C. M. St. P. & P. RR., 84 ft S., 40 ft E. of center of track crossing RR. and 0.6 ft higher than rd., near cor. secs. 4, 5, 32 and 33, Tps. 84 and 85 N., R. 31 W., 6 ft N. of utility pole, in concrete post; standard USC&GS disk stamped "T 101 1935"		1139.017

LINE 6 (Cont'd)

JEFFERSON QUAD. - 153

FEET

- 3.2 Reference mark, 210 ft NNE. of tablet, 30 ft N., 27 ft E. and 2.3 ft lower than crossroad, 1 ft S. of corner steel fence post, concrete base of post; chiseled square 1056.04
- 3.2 Jefferson, 5.5 mi N. and 6.0 mi W. of, 185 ft S., 32 ft W. and 0.8 ft lower than crossroad, cor. secs. 7, 8, 17 and 18, T. 84 N., R. 31 W., 1 ft E. of W. right-of-way fence, in concrete post; standard tablet stamped "12 T 1960 1087" 1087.425
- 4.2 UE, 36 ft S., 23 ft W. and 3.9 ft higher than crossroad, cor. secs. 17, 18, 19 and 20, T. 84 N., R. 31 W., E. side transformer poles, 0.5 ft above ground; RR. spike 1118.74
- 5.6 Reference mark, 220 ft E. of tablet, 36 ft N., 37 ft W. and 1.3 ft lower than crossroad, SW. end 1.5 ft concrete tube driveway culvert; chiseled square 1102.24
- 5.6 Jefferson, 3.25 mi N., 6 mi W. of; 35 ft N., 255 ft W. and 2.2 ft higher than crossroad, sixteenth cor. secs. 29 and 30, T. 84 N., R. 31 W., 1 ft S. of N. right-of-way fence, in concrete post; standard tablet stamped "13 T 1960 1106" 1105.782
- 6.6 UE, 12 ft SE. of SW. end center of concrete bridge and 0.7 ft higher than Raccoon River, top S. end E. concrete curb, 1 ft S. of expansion plate; chiseled square, near cor. secs. 29, 30, 31 and 32, T. 84 N., R. 31 W. 1024.11
- 7.7 UE, T-rd. N. (U. S. Hwy. 30 E.-W.) quarter cor. secs. 6 and 31, T. 84 N., R. 31 W. 1118.26
- 8.3 Jefferson, 1.5 mi N. and 6.0 mi W. of; 59 ft N., 350 ft W. and 8.5 ft higher than T-rd. S. (U. S. Hwy. 30 E.-W.) cor. secs. 5, 6, 31 and 32, Tps. 83 and 84 N., R. 31 W., 21 ft E. of utility pole, 1 ft S. of N. right-of-way fence, in concrete post; standard tablet stamped "14 T 1960 1126" 1126.082
- 8.3 Reference mark, 250 ft E. of tablet, 59 ft N., 100 ft W. and 4.5 ft higher than T-rd. S.; top of RR. rail, right-of-way marker; chiseled cross, on fence line; 1122.12
- GLIDDEN QUAD. - 154
- 9.1 UE, 120 ft W. and 0.1 ft lower than rd. fork (center of triangle) 21 ft N., center of rd., 36-in. concrete tube culvert; chiseled square 1036.56
- 9.9 UE, 9 ft S. of E. abutment of wood deck bridge, above stream, and 2.1 ft lower, 1.5 ft below wood curb; SW $\frac{1}{2}$ in. rivet of SE. abutment girder 1074.3

LINE 6 (Cont'd)

GLIDDEN QUAD. - 154

FEET

11.2 Soranton, 1.1 mi E. of, along C. & NW. RR. from depot at; near center sec. 12, T. 83 N., R. 31 W., 45 ft N., 30 ft W. and 3.0 ft lower than rd. crossing RR.; 3 ft SE. of fence corner, 3 ft SW. of utility pole, in concrete post; USC&GS standard disk stamped "K 89 1935" 1155.890

LINE 7

F.W. Krueger, 1975; Book CV-3234

GLIDDEN QUAD. - 154

2 2 0.0 BM, Glidden, about 0.9 mi W. of along R.R., T. 84 N., Rs. 33 and 34 W., near quarter cor. between secs. 25 and 30; 28 ft N. and 37 ft E. of centerline of N. track, 12 ft S. and 3 ft W. of a pole; in a concrete post; standard disk stamped "V 89 1935" 1225.024

3 0.6 UE V 89 A Centerline, 0.5 mi N. from disk; T. 84 N., Rs. 33 and 34 W., near cor. secs. 19 and 24, 25 and 30, centerline of U.S. Hwy. 30 at N.-S. road, top of metal plug, about 0.75-in. in diameter 1212.40

5 1.6 UE V 89 B, 1.5 mi N. from disk, T. 84 N., Rs. 33 and 34 W., near cor. secs. 13, 18, 19 and 24; 30 ft N., 30 ft E. and 2.2 ft lower than crossroads, on W. side of a corner fence post; a spike 1254.04

7 2.6 UE V 89 C, 2.5 mi N. from disk; T. 84 N., Rs. 33 and 34 W., near cor. secs. 7, 12, 13 and 18; 33 ft E. and 2.1 ft lower than T-rd. W., 3 ft E. of a corner fence post; N. end of gate; top of a 1-in. iron pipe projecting about 3-in., marked with a steel fence post; painted yellow and in the fence line 1220.60

9 3.6 BM, Glidden, 3.5 mi N. and 1 mi W. of; T. 84 N., Rs. 33 and 34 W., near cor. secs. 1, 6, 7 and 12; 36 ft S., 38 ft W. and 0.7 ft lower than crossroads, 2 ft S. and 5 ft W. of a fence corner; top of 15 ft copper weld rod; in a gravel filled tile; standard tablet stamped "1 FWK 1975" 1216.377

10 3.6 Reference mark, 34 ft S. and 38 ft W. of crossroads; in the right-of-way fence line; top of 0.75-in. reinforcement rod projecting about 4-in. marked by yellow iron fence post 1216.75

12 4.7 UE 1 A, 1 mi N. from tablet; Ts. 84 and 85 N., R. 33 and 34 W., near cor. secs. 1, 6, 31 and 36; 15 ft S., 60 ft W. and 0.2 ft higher than crossroads; center of S. concrete headwall of a culvert; a chiseled square 1204.55

CARROLL QUAD. - 155

14 5.2 UE 1 B, 1 mi N. and 0.5 mi W. from tablet; Ts. 84 and 85 N., R. 34 W., near quarter cor. between secs. 1 and 36; 45 ft S. of T-rd. N., 4 ft S. of a corner fence post; top of a 0.75-in. reinforcement rod protected by a yellow iron fence post, 1.8 ft lower than T-rd. N. 1206.85

16 6.2 UE 1 C, 2 mi N. and 0.5 mi W. from tablet; T. 85 N., R. 34 W., near quarter cor. secs. 25 and 36, 30 ft N., 42 ft E. and 3 ft lower than crossroads, 3 ft S. and 8 ft E. of a corner fence post; top of 0.75-in. reinforcement bar protected by yellow iron fence post 1183.43

18 7.3 BM, Glidden, 6.5 mi N. and 1.5 mi W. of, T. 85 N., R. 34 W., near quarter cor. between secs. 24 and 25; 15 ft N., 34 ft E. and 2.6 ft lower than T-rd. W., 4 ft N. and 2 ft W. of a power pole, top of 12 ft copper coated rod, in a 6-in. gravel filled tile, standard tablet stamped "2 FWK 1965" 1164.453

19 7.3 Reference mark, 15 ft S. and 2 ft W. of tablet, 32 ft E. of T-rd. W., 4 ft W. of E. right-of-way fence top of a 0.75-in. reinforcement rod marked by a yellow iron fence post 1164.85

20 8.3 UE 2 A Centerline, 1 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 13 and 24; centerline of crossroad, a chiseled square 1151.93

LINE 7 (Cont'd)

CARROLL QUAD. - 155

FEET

2	22	9.3	UE 2 B, 2 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 12 and 13; 25 ft N., 41 ft W. and 5 ft lower than T-rd. W.; on E. side of a fence post; a spike	1126.45
24		9.8	UE 2 C, 2.5 mi N. from tablet; T. 85 N., R. 34 W., near center of sec. 12, 28 ft N., 31 ft E. and 1.7 ft lower than a T-rd. W. (rd. E. offset & dead end) on W. side of N. gate post; a spike	1138.15
26	10.2		BM, Glidden, 9.25 mi N. of; T. 85 N., R. 34 W., 0.25 mi N. of center of sec. 12, 11 ft E. and 0.7 ft higher than bridge at drain; 14 ft above drain this date; in the center of the E. concrete curb of bridge countersunk; standard tablet stamped "3 FWK 1975"	1099.043
27	10.2		Reference mark, 39 ft S. and 21 ft W. of tablet; on S. end of W. concrete curb of bridge; chiseled square	1099.01
29	10.4		UE 3 A, 0.25 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 1 and 12; 60 ft N., 27 ft W. and 5.2 ft lower than X-rds. on W. end of a 24-in. iron pipe culvert; a punched hole	1118.65
31	11.4		UE 3 B, 1.25 mi N. from tablet; Ts. 85 and 86 N., R. 34 W., near quarter cor. between secs. 1 and 36; 2 ft S. and 31 ft E., 1.9 ft lower than T-rd. W., on W. side of a fence post; a spike	1139.77
2	12.0		UE 3 C, 2.25 mi N. from tablet, T. 86 N., R. 34 W., near quarter cor. between secs. 25 and 36; 32 ft N., 75 ft W. and 1 ft lower than T-rd. W.; on E. end of a 24-in. iron pipe culvert under a field entrance N.; a punched hole	1132.60
4	12.5		BM, Glidden, 11.75 mi N. and 1 mi W. of; T. 86 N., R. 34 W. near S. center of sec. 25; 41 ft N. 9 ft W. and 0.3 ft higher than centerline of bridge, on the W. concrete curb of bridge between the middle and N. spans of a three span concrete bridge over Racoon River; countersunk; standard tablet stamped "4 FWK 1975"	1100.824
5	12.5		Reference mark, 94 ft N. and 18 ft E. from tablet; 135 ft N. and 9 ft E. from centerline of bridge; top of NE. concrete pillar of E. rail of bridge; a previously established chiseled cross (larger one of two)	1103.76
7	13.2		UE 4 A, 0.7 mi N. from tablet; T. 86 N., R. 34 W., near quarter cor. between secs. 24 and 25, 22 ft N., 34 ft E. and 0.3 ft lower than T-rd. E.; on N. end of a N.-S. 24-in. iron pipe culvert; a punched hole	1120.82

SAC CITY QUAD. - 180

9	14.2		UE 4 B, 1.7 mi N. from tablet; T. 86 N., R. 34 W., near quarter cor. between secs. 13 and 24; 16 ft S., 27 ft W. and 0.8 ft lower than N.-S. road, at fence E.; on S. end of N.-S. concrete culvert under entrance W., a chiseled square	1188.82
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ROCKWELL CITY QUAD. - 179

10	15.0		UE 4 C, 2.2 mi N. and 0.4 mi E. from tablet; T. 86 N., R. 34 W., about 0.2 mi W. of cor. secs. 13, 18, 19 and 24; 62 ft N. and 173 ft E. of jct. roads, E.-W. and NE.; 14 ft NW. of road at a culvert 3.3 ft higher than road at culvert; center of N. concrete rail culvert; a previously established chiseled cross in a yellow painted circle	1219.41
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