

OFFICE COPY HOLD

THIRD ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

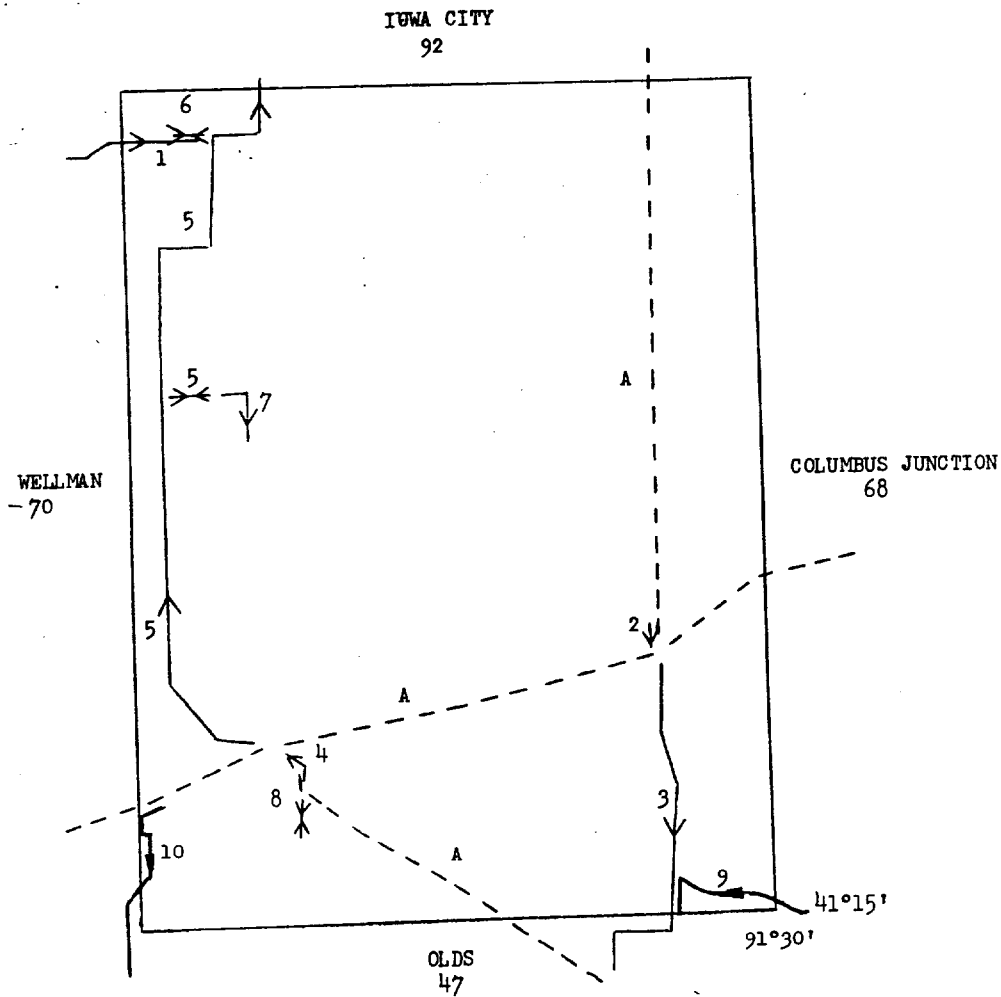
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

41-091-31
WASHINGTON QUADRANGLE
69 - IOWA
N4115-W9130/15
DIAGRAM NK 15-9
DAVENPORT

Johnson and Washington
Counties

Edition: 3-16-77

PR : ADP/LB/ob



USC&GS VERTICAL CONTROL DATA

A. Quadrangle No. 410913

69 D

LINE 1

FEET

W. E. Knouse, 1969; Book CV 2446

WELLMAN QUAD. - 70

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|----|------|------|---|---------|
| 1 | 73 | 13.1 | Kalona, 2.5 mi W. and 0.5 mi S. from, 4.5 mi E. and 0.75 mi N. of Wellman, T. 77 N., R. 8 W., in N. central portion of sec. 15, 106 ft N. and 30 ft W. of crossroads, 1 ft E. of W. right-of-way fence, in top of concrete post; a standard tablet stamped "9 WEK 1969" | 663.038 |
| 74 | 13.1 | | Reference mark, T. 77 N., R. 8 W., in N. central portion of sec. 15, 40 ft N. and 22 ft W. of crossroads, on top of W. end of concrete pipe culvert; chiseled square | 661.77 |

WASHINGTON QUAD. - 69

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|----|------|--|---------|
| 75 | 13.8 | UE 9 A, T. 77 N., R. 8 W., in SW $\frac{1}{4}$ sec. 11, at center of State Hwy. 22 at T-rd. W.; copper nail and washer | 665.60 |
| 76 | 14.8 | UE 9 B, T. 77 N., R. 8 W., between SE $\frac{1}{4}$ sec. 11 and SW $\frac{1}{4}$ sec. 12, 60 ft N. and 24 ft W. of crossroads, on top of S. end of concrete pipe culvert under a drive W.; chiseled square | 667.95 |
| 77 | 15.8 | Reference mark, for "12 SEM 1968", 468 ft SSE. of tablet, 39 ft N. of intersection of State Hwys. 1 and 22, at Kalona, on S. end of N. dividing strip of Hwy. 1, and 0.5 ft higher than pavement; chiseled square | 667.72 |
| 78 | 15.9 | Kalona, W. edge of, 510 ft N. and 65 ft W. of Jct. State Hwys. 1 and 22, 50 ft W. of W. lane, 5 ft S. and 6 ft W. of power pole with switch, 2 ft E. of fence, 1 ft E. of witness tag; a standard tablet on steel rod encased in 6-in. tile; stamped "12 SEM 1968", painted "BM" | 665.764 |

LINE 2

S. E. Mitchell, 1968; Book CV 2330

WASHINGTON QUAD. - 69

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|---|-----|-----|--|---------|
| 2 | 2 | 0.0 | One mi N. along U. S. Hwy. 218 from the overhead crossing of the Chicago, Milwaukee, St. Paul and Pacific RR. at Haskins, at pavement station 704, at a 2 x 2 ft concrete box culvert, and in top of the W. headwall; a bronze plug | 669.625 |
| 2 | 0.5 | | State Hwy. 218 at T-rd. W.; copper nail and washer on W. edge of pavement painted "centerline" | 732.5 |
| 3 | 1.0 | | At Haskins, 3.16 mi W. of the Chicago, Milwaukee, St. Paul and Pacific RR. station, on U.S. Hwy. 218, 15 ft N. of the RR. overpass, at a 2 x 3 ft concrete box culvert; under the hwy., and in the top of the W. headwall; a State Survey standard disk stamped "92-1" | 740.425 |

LINE 3

FEET

S. E. Mitchell, 1968; Book CV 2330

WASHINGTON QUAD. - 69

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|----|-----|--|---------|
| 2 | 4 | 0.0 State Survey standard disk-stamped "92-1" (described in Line 2) | 740.425 |
| 4 | 0.1 | HASK 1968. The station is located about 3.0 mi N. and 0.5 mi E. of Ainsworth, at the W. edge of the community of Haskins, in the right-of-way of U.S. Hwy. 218, about 0.1 mi S. of the RR. overpass crossing of U.S. Hwy. 218, near quarter cor. between secs. 3 and 4, T. 75 N., R. 6 W., to reach the station from the post office at Ainsworth, drive one block E. and one block S. to jet. with State Hwy. 92, turn left and drive E. on Hwy. 92 for 0.6 mi to jet. with U.S. Hwy. 218, turn left and drive N. on U.S. Hwy. 218 for 2.5 mi to station on the left; standard tablet stamped "HASK 1968" | 760.998 |
| 5 | 0.5 | U. S. Hwy. 218 at crossroads; chiseled square on W. edge of pavement | 743.3 |
| 6 | 0.5 | UE, T. 75 N., R. 6 W., near cor. secs. 3, 4, 9 and 10, 66 ft S. and 20 ft W. of crossroads, on headwall of concrete culvert; chiseled square, painted "centerline" | 742.29 |
| 7 | 1.5 | UE, T. 75 N., R. 6 W., near cor. secs. 9, 10, 15 and 16, 70 ft N. and 15 ft E. of T-rd. E., on N. concrete wall of drain outlet; chiseled square, painted "UE" | 719.28 |
| 8 | 1.5 | UE, Hwy. 218 at T-rd. E., on E. concrete curbing; chiseled square, about 0.1 ft higher than center of rd. | 719.39 |
| 9 | 2.0 | UE, T. 75 N., R. 6 W., near quarter cor. between secs. 15 and 16, 15 ft W. of center of rd. at drain, on S. concrete wall of drain outlet; chiseled square, painted "UE" | 696.48 |
| 10 | 2.7 | Ainsworth, 0.8 mi E. of along State Hwy. 92 to jet. of U.S. Hwy. 218, 200 ft S. of hwy. jet., 15 ft W. of Hwy. 218, on SW. wingwall of hwy. overpass of RR.; a USGS standard tablet set in concrete post; stamped "1 SEM 1968" and painted "BM" | 746.872 |
| 11 | 2.7 | Reference mark, 133 ft SE. of tablet, 36 ft N. and 45 ft W. of E. fork of Y-rd. on E. concrete wall of drain outlet; chiseled square | 743.00 |
| 12 | 2.7 | Center of crossroads | 743.2 |
| 13 | 3.5 | UE, T. 75 N., R. 6 W., about 755 ft N. of W. sixteenth cor. between secs. 22 and 27, 18 ft W. of center of U.S. Hwy. 218 on NW. concrete wingwall of bridge over Long Creek; chiseled square, painted "UE" | 674.38 |
| 14 | 3.7 | U.S. Hwy. 218 at T-rd. W.; copper nail and washer in W. side of pavement | 691.0 |

FEET

LINE 5 (Cont'd)

WASHINGTON QUAD. - 69

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|------|-----|---|--------|
| 2 15 | 4.2 | US. Hwy. 218 at T-rd. E., copper nail and washer on W. edge of pavement, painted centerline | 676.2 |
| 16 | 4.3 | UE, T. 75 N., R. 6 W., near W. sixteenth cor. of sec. 27, 820 ft S. and 18 ft E. of T-rd. E. on SE. concrete wingwall of bridge over South Fork Long Creek, chiseled square, painted UE | 675.07 |
| 17 | 4.9 | UE, T. 75 N., R. 6 W., near center NW $\frac{1}{4}$ sec. 34, 69 ft N. and 21 ft W. of crossroads, jct. U.S. Hwy. 218 and State Rd. G., on concrete headwall of culvert, chiseled square, painted UE | 732.27 |
| 18 | 4.9 | Center of crossroads, U.S. Hwy. 218 and State Rd. G. | 733.0 |

OLDS QUAD. - 47

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|----|-----|--|---------|
| 19 | 5.9 | Crawfordsville, 2.25 mi N. of along U.S. Hwy. 218, T. 74 N., R. 6 W., near center of NW $\frac{1}{4}$ sec. 3, 12 ft N. and 61 ft E. of T-rd. W., 3.5 ft N. and 3 ft W. of T-fence N., 1 ft W. of witness tags, a standard tablet on steel rod, in 6 in. tile stamped "2 SEM 1968", painted BM | 737.077 |
| 20 | 6.0 | Reference mark, 95 ft WNW. of tablet, 37 ft N. and 33 ft W. of T-rd. W., on top of steel rod in concrete right-of-way post | 737.08 |
| 21 | 6.0 | Center of T-rd. W. | 738.7 |
| 22 | 6.6 | Center of rd. at fence S. | 736.1 |
| 23 | 7.2 | UE, T. 74 N., R. 6 W., near N. sixteenth cor. between secs. 4 and 5, 24 ft S. and 25 ft E. of T-rd. E., on concrete pipe culvert; chiseled square, painted UE | 730.41 |
| 24 | 7.2 | Center of rd. at T-rd. E. | 733.6 |
| 25 | 8.0 | Center of rd. at T-rd. W. | 731.1 |
| 26 | 8.3 | 1.6 mi NW. along the Chicago, Burlington & Quincy RR. from the crossing of U.S. Hwy. 218 at Crawfordsville, at a rd. crossing, 27 ft NE. of the center of the track, 32 ft W. of the center of the rd., 8 ft NW. of a fence cor., and 2 ft SW. of a fence. A standard disk, stamped "Q 123 1935" and set in the top of a concrete post | 737.590 |

LINE 4

S. E. Mitchell, 1968; Book CV-2330

WASHINGTON QUAD. - 69

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|-----|-----|---|---------|
| 4 2 | 0.0 | At Washington, on the C.B.&Q. RR., 0.6 mi S. of the station, at a street crossing 33 ft S. of the center of the street, 18 ft E. of the center of the track, and 4 ft S. of a pole. A standard disk, stamped "W 123 1935" and set in the top of a concrete post | 756.757 |
| 2 | 0.4 | Center of State Hwy. 92 (E. Washington Street) at RR. crossing, top of W. rail | 757.6 |
| 3 | 0.9 | At Washington, at the E. front door of the post office, N. of the steps, and in the banister. A standard disk, stamped "761.537 Y 6 1930" | 761.537 |

LINE 5

S. E. Mitchell, 1968; Book CV-2330

WASHINGTON QUAD. - 69

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|-----|-----|--|---------|
| 4 4 | 0.0 | Standard disk stamped "761.537 Y 6 1930" (Described in Line 4) | 761.537 |
|-----|-----|--|---------|

FEET

LINE 5 (Cont'd)

WASHINGTON QUAD. - 69

4	4	0.7	UE, Washington, W. edge of, on County Farm Rd., 31 ft N. of center of rd., on top of steel rod in concrete headwall of culvert, painted UE	716.21
5	0.7	Center of rd. over drain		722.8
6	1.5	UE, Washington post office, 1.5 mi NW. of, along Co. Farm Rd., 88 ft S. and 18 ft E. of crossroads at State Hwys. 1 and 92, on S. end of concrete pipe culvert, chiseled square, painted UE		715.96
7	1.5	Center of crossroads, on E. edge of concrete pavement		718.5
8	2.1	UE, T. 75 N., R. 8 W., near S. sixteenth cor. 12, near Co. Farm Home, 88 ft W. of rd. fork, RR. spike in E. side of power pole No. 498, painted UE		761.10
9	2.1	Center of small triangle at rd. fork		760.7
10	3.0	UE, T. 75 N., R. 8 W., near cor. secs. 1, 2, 11 and 12, 18 ft N. and 42 ft W. of crossroads, on concrete pipe culvert; chiseled cross, painted UE		759.8
11	3.0	Center of crossroads		760.7
12	4.0	West Chester, 4.25 mi E. of along Hwy. 92, Tps. 75 and 76 W., R. 8 W., near cor. secs. 1, 2, 35 and 36, 98 ft N. and 145 ft E. of crossroads on State Hwy. 92, 3 ft S. of fence, 26 ft NW. of fence cor. NW. and E., 1 ft W. of witness tag, a standard tablet on steel rod encased in 6 in. tile, (probably stamped "9 SEM 1968"), painted BM		742.733
13	4.1	Reference mark, 175 ft WSW. of tablet, 63 ft N. and 30 ft W. of crossroads, on concrete pipe culvert; chiseled square		741.37
14	4.1	Center of crossroads, on N. edge of concrete pavement		747.2
15	5.1	Center of rd. at T-rd. W.		754.6
16	5.1	UE, T. 76 N., R. 8 W., near cor. secs. 25, 26, 35 and 36, 155 ft N. and 12 ft E. of T-rd. W., on concrete curbing of bridge over drain at NE. cor. of bridge, chiseled square, painted UE		756.21
17	5.7	Center of rd. at T-rd. E., painted centerline		777.1
18	6.2	UE, T. 76 N., R. 8 W., near cor. secs. 23, 24, 25 and 26, 18 ft N. and 27 ft E. of crossroads, on concrete pipe culvert, chiseled square, painted UE		777.01
19	6.2	Center of crossroads		778.6
20	6.7	Center of rd. at E.-W. fence		779.9
21	7.1	Prairie Flower Baptist Church and School, in SW. cor. of school yard, T. 76 N., R. 8 W., near cor. secs. 13, 14, 23 and 24, 212 ft S. and 42 ft E. of crossroads, 3 ft E. and 1.2 ft N. of fence cor., 1.2 ft N. of fence, 1 ft N. of witness tag, a standard tablet on steel rod encased in 6 in. tile, stamped "10 SEM 1968", painted BM		785.819
22	7.2	Reference mark, 130 ft NW. of tablet, 42 ft W. of rd., on N. end of bottom step at E. entrance to Prairie Flower Church, chiseled square		787.81
23	7.2	Center of crossroads		787.9
24	8.2	Center of crossroads		777.8

FEET

LINE 5 (Cont'd)

WASHINGTON QUAD. - 69

4 25	8.2	UE, T. 76 N., R. 8 W., near cor. secs. 11, 12, 13 and 14, 106 ft N. and 9 ft E. of crossroads, on concrete headwall of culvert, chiseled square, painted UE	777.23
26	8.7	Center of rd. at E.-W. fence	793.0
27	9.2	Center of Co. Rd. K at crossroads, rail spike in rd.	793.5
28	9.2	UE, T. 76 N., R. 8 W. near cor. secs. 1, 2, 11 and 12, 31 ft N. and 32 ft E. of crossroads at Co. Rd. K, rail spike in N. side of power pole, painted UE	793.08

DOUBLE RUN SPUR LINE

28	0.0	UE, described above	793.08
29	0.9	Reference Mark No. 2 is 67.52 ft (20.580 meters) S.-SE. of station, 33 ft S. of center of Co. Hwy. K, 29 ft E. of center of entrance to field S., 7 ft E. of telephone pole, 1 ft N. of right-of-way fence and 1 ft W. of a metal witness post	794.833
30	0.9	"BEN 1968" Triangulation Station. The station is located 7.5 mi N. and 1.0 mi W. of Washington in the right-of-way of Co. Hwy. K, in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of sec. 1, T. 76 N., R. 8 W. and 0.15 mi W. of jct. of Co. Hwy. K with State Hwy. 1. Station and Reference marks are standard tablets stamped "BEN 1968" crimped on 10 ft lengths of copper coated rod, driven flush with the ground and set in 6 in. tile filled with gravel. Station mark is 30 ft N. of center of Co. Hwy. K, 646 ft E. of center of Co. Hwy. K at fences N. and S., 10 ft W. of center of entrance to field N., 2 ft S. of right-of-way fence and 1 ft W. of a metal witness post	794.914
31	0.9	Reference Mark No. 1 is 63.91 ft (19.480 meters) E. of station, 32 ft N. of center of Co. Hwy. K, 4 ft W. of a power line pole, 1 ft S. of right-of-way fence and 1 ft E. of a metal witness post	795.232

END OF SPUR LINE

28	9.2	UE, as described above	793.08
33	9.7	Center of rd. at field entrance E.	795.3
34	10.4	UE, Tps. 77 and 76 N., R. 8 W., about 0.15 mi N. of cor. secs. 1, 2, 35 and 36, 21 ft W. of center of rd. on concrete pipe culvert, chiseled square, painted UE	766.48
35	10.8	Center of steel bridge over small creek, copper nail and washer, painted center line	713.6
36	11.1	UE, T. 77 N., R. 8 W., near cor. secs. 25, 26, 35 and 36, 470 ft S. and 21 ft W. of T-rd. E., on corrugated pipe culvert; chiseled cross, painted UE	754.51
37	12.2	Kalona, 2.25 mi S. on State Hwy. 1 from jct. of State Hwys. 1 and 22, thence 1 mi W. on gravel rd., T. 77 N., R. 8 W., near cor. secs. 23, 24, 25 and 26, 50 ft N. and 24 ft E. of T-rd. S., 2 ft N. and 2.5 ft W. of power pole, 1.5 ft S. of witness tag, a standard tablet on steel rod encased in 6 in. tile, stamped "11 SEM 1968", painted BM	777.511
38	12.3	Reference mark, 130 ft SW. of tablet, 50 ft S. and 55 ft W. of T-rd. S., top of iron rod in concrete right-of-way post	774.42

FEET

LINE 5 (Cont'd)

WASHINGTON QUAD. - 69

4 39	12.3	Center of rd. at T-rd. S.	776.1
40	13.3	UE, T. 77 N., Rs. 7 and 8 W., near cor. secs. 19, 24, 25 and 30, 32 ft S. and 48 ft W. of T-rd. W. at State Hwy. 1, on concrete pipe culvert, 1 ft N. of S. end chiseled square, painted UE	755.53
41	13.3	Center of State Hwy. 1 at T-rd. W., copper nail and washer on E. side of asphalt	757.7
42	14.1	UE, T. 77 N., Rs. 7 and 8 W., near N. sixteenth cor. between secs. 19 and 24, 136 ft S. and 36 ft W. of State Hwy. 1 at crossroads on N. end of concrete pipe culvert under a driveway, chiseled square, painted UE	752.47
43	14.1	Center of State Hwy. 1 at crossroads, copper nail and washer in E. edge of asphalt	753.4
44	14.4	UE, Kalona, 1.2 mi S. of along State Hwy. 1, T. 77 N., Rs. 7 and 8 W., near S. sixteenth cor. between secs. 13 and 18, 30 ft N. and 14 ft E. of T-rd. W., along S. bank of river, on SE. cor. of bridge over English River, on concrete curbing, chiseled square, (river gage mark), painted UE	674.11
45	15.7	Kalona, W. edge of, 510 ft N. and 65 ft W. of Jct. of State Hwys. 1 and 22, 50 ft W. of W. lane, 5 ft S. and 6 ft W. of power pole with switch, 2 ft E. of fence, 1 ft E. of witness tag, a standard tablet on steel rod encased in 6 in. tile, stamped "12 SEM 1968", painted BM	665.764
46	15.8	Reference mark, 468 ft SSE. of tablet, 39 ft N. of intersection of State Hwys. 1 and 22 at Kalona, on S. end of N. dividing strip of Hwy. 1 and 0.5 ft higher than pavement, chiseled square	667.80
47	16.0	UE, 30 ft N. of center of State Hwy. 22 at concrete bridge over drainage ditch, on NW. wingwall of bridge; a bronze plug, painted UE	666.38
48	16.8	Center of State Hwy. 22 at crossroads, on S. edge of concrete pavement, chiseled square	669.6
49	16.8	UE, Kalona, E. edge of, 36 ft N. and 42 ft E. of State Hwy. 22 at crossroads, on concrete pipe culvert, chiseled square, painted UE	666.52
50	17.2	Center of crossroads	716.6
51	18.1	UE, T. 77 N., R. 7 W., near quarter cor. between secs. 5 and 6, 26 ft S. and 33 ft E. of T-rd. E., on W. end of corrugated pipe culvert, under field entrance, chiseled cross, painted UE	772.90
52	18.6	Kalona, 1.7 mi N. and 1.0 mi E. of Jct. St. 1 and 22 at, T. 78 N., R. 7 W., in SW. cor. of SW $\frac{1}{4}$ sec. 32, 90 ft E., 40.5 ft N. and 1.3 ft higher than center T-rd. N. at offset crossroads, 66 ft NW. and 2.0 ft higher than center T-rd. S. at offset crossroads, 11 ft SW. of SE. cor. of church, 11.7 ft E. of well pump, 6 ft S. of most easterly one of two entrances on S. side of church, 1.2 ft above ground; in SW. cor. of concrete step platform; standard tablet stamped "39 FDR 1964 780" painted "BM 780"	780.077

LINE 6

S. E. Mitchell, 1968; Book CV-2330

WASHINGTON QUAD. - 69

LEVELED TWICE

4 54	0.0	"12 SEM 1968" (Described in line 5)	665.764
54	0.4	T. 77 N., Rs. 7 and 8 W., near cor. of secs. 7, 12, 13 and 18, near SW. limits of Kalona, 40 ft S. and 40 ft W. of Chicago, Rock Island & Pacific RR. at crossing of Hwy. 1, in concrete post; standard tablet stamped "B 4 1930" (Reported disturbed SEM)	668.762

8
41-091-31
WASHINGTON QUADRANGLE
69 - IOWA

FEET

LINE 7

WASHINGTON QUAD. - 69

S. E. Mitchell, 1968; Book CV-2330

LINE TIES TO ISOLATED UE

4 57	0.0	Triangulation Station "BEN 1968" (Described in Line 5)	794.914
57	0.1	Center of State Hwy. 1 at crossroads, copper nail and washer	795.5
58	0.9	UE, T. 76 N., R. 7 W., near E. sixteenth cor. between secs. 6 and 7, 19 ft S. and 36 ft W. of crossroads, on corrugated pipe culvert, chiseled cross, painted UE	765.40
59	0.9	Center of crossroads	765.0
60	1.4	Center of rd. at fence W.	787.5
61	1.9	Center of crossroads	782.9
62	1.9	UE, T. 76 N., R. 7 W., 0.25 mi W. of cor. secs. 7, 8, 17 and 18, 15 ft N. and 225 ft W. of crossroads, top of concrete culvert; chiseled square	782.21

LINE 8

WASHINGTON QUAD. - 69

S.E. Mitchell, 1968; Book CV-2330

LEVELED TWICE

6 1	0.0	Standard disk stamped "W 123 1935" (Described in Line 4)	756.757
1	0.3	Top of E. rail of street crossing	757.359
2	1.2	Center of airport rd. at T-rd. W., bronze plug in rd.	753.731
3	1.9	Washington Municipal Airport, 136 ft E. of SE. cor. of E. hanger, 2 ft S. and 18 ft E. of W. end of car parking area, 2 ft S. of fence, 1 ft S. of witness tag, a standard tablet on steel rod, encased in 6 in. tile, stamped "13 SEM 1968"	751.718
4	2.0	Reference mark, 419 ft WSW. of tablet on NW. cor. of taxi apron, chiseled square	752.155
5	2.2	Center of runway at taxi strip NE.	752.529
6	2.3	NW. end of runway	752.168
7	2.8	SE. end of runway	753.109

LINE 9

WINFIELD QUAD. - 46

D.D. Bolin, 1976; Book CV-3332

1 55	17.8	BM, Columbus City; 0.5 mi S. and 4.6 mi W. of; 2.5 mi N. and 3.8 mi E. of Crawfordsville, T. 74 and 75 N., R. 5 W.; near the cor. of secs. 31, 32, 5 and 6, 71 ft N., 66 ft W. and 3.7 ft lower than the centerline of the crossroads; 1 ft SE. of the NW. right-of-way fence, 1 ft SE. of the witness post, set inside of a 6-in. drain tile, a standard tablet stamped "5 DDB 1976"	724.188
56	17.8	Reference mark, 167 ft WSW. of the tablet; 33 ft N. and 225 ft W. centerline of the crossroads on top and at the N. end of the round concrete culvert; a chiseled square	722.92

LINE 9 (Cont'd)

WINFIELD QUAD. - 46

FEET

- 1 57 18.8 UE 5 A, 1 mi W. along county route G 52 from the tablet; T. 74 and 75 N., R. 5 and 6 W.; at the cor. of secs. 1, 6, 31 and 36; at the centerline of the crossroads; a chiseled square in the concrete hwy. 736.05
- 58 19.5 UE 5 B, 1.7 mi NW. along county route G 52 from the tablet, T. 75 N., R. 6 W., about 0.2 mi NE. of quarter cor. between secs. 1 and 36, 39 ft NE.; 21 ft NW. and 2.8 ft lower than the centerline of the hwy. at the private drive NE. on top and at the NW. end of the round metal culvert; a punched hole 718.79

WASHINGTON QUAD. - 69

- 61 20.5 BM, Crawfordsville, 2.7 mi N. and 1.2 mi E. of; T. 75 N., R. 6 W., about 0.2 mi N. of the quarter cor. between secs. 2 and 35; 84 ft N., 24 ft E. and 3.3 ft lower than the centerline of the crossroads; 1 ft W. of the N. gate post; 1 ft W. of the E. right-of-way fence and 1 ft W. of the witness post; set inside of a 6-in. drain tile a standard tablet stamped "6 DDB 1976" 735.974
- 62 20.5 Reference mark, 43 ft ESE. of the tablet; 60 ft N., 54 ft E. centerline of crossroad; on top of the concrete right-of-way marker 737.34
- 65 21.9 UE 6 A, 1.5 mi W. along county route G 52, from the tablet; T. 75 N., R. 6 W., near the center of the NW $\frac{1}{4}$ of sec. 34, 69 ft N., 21 ft W. and 1.1 ft lower than the centerline of the crossroads, junction of U.S. Hwy. 218 and county Route G 52, on top and at the center of the W. concrete headwall and on top of the copper State Hwy. Dept. type BM 732.20

OLDS QUAD. - 47

- 67 23.0 Crawfordsville, 2.25 mi N. of along U.S. Hwy. 218, T. 74 N., R. 6 W. near center of NW $\frac{1}{4}$ sec. 3, 12 ft N. and 61 ft E. of T-rd. W., 3.5 ft N. and 3 ft W. of T-fence N., 1 ft W. of witness tags, a standard tablet on steel rod, in 6-in. tile stamped "2 SEM 1968"; painted "EM" 737.077

LINE 10

D.D. Bolin, 1976; Book CV-3332

WASHINGTON QUAD. - 69

- 5 1 0.0 BM, 2.5 mi W. along the Chicago, Milwaukee, St. Paul & Pacific RR. from Washington, in the S. side of bridge 1-1078 over Arterial Hwy. 2, and about 2 yards from the W. end; a standard USC&GS disk stamped "705.491 X 6 1930" 705.540
- 3 2.8 UE W A, 1.4 mi S. along road from the tablet, T. 75 N., R. 8 W.; near the quarter cor. between secs. 26 and 35, 240 ft N., 40 ft E. and 0.0 ft lower than the centerline of the N. on top of the hwy. right-of-way marker and painted orange 757.66
- 5 3.4 UE W B, 2 mi S. and SW. along road and State Hwy. No. 1 from the tablet, T. 75 N., R. 8 W., in the NW $\frac{1}{4}$ of sec. 35; 27 ft NE.; 15 ft NW. and 0.5 ft higher than the centerline of the concrete bridge over "Cedar Creek", on top and at the NE. end of the NW. concrete bridge railing; a chiseled square 715.23

10
41-091-31
WASHINGTON QUADRANGLE
69 - IOWA

LINE 10 (Cont'd)

WELLMAN QUAD. - 70

FEET

- 5 9 4.1 UE W C, 2.7 mi S. along road from the tablet; T. 75 N., R. 8 W., near the S. sixteenth cor. between secs. 34 and 35; 40 ft N., 33 ft E. and 1.3 ft lower than the centerline of the T-rd. E., 0.5 ft W. of the cor. fence post; on top of a drilled copper rod projecting 0.5 ft above the ground 756.50

PLEASANT PLAIN QUAD. - 48

- 11 5.3 Reference mark, 145 ft NW. of the tablet; 96 ft N.; 19 ft W. and 1 ft N. of the S. end of the W. concrete headwall of the concrete box culvert; a chiseled square 679.49
- 12 5.4 BM, Washington, 4 mi S. and 3 mi W. of; T. 74 N., R. 8 W.; near the cor. of secs. 2, 3, 10 and 11; 18 ft S., 71 ft E. and 5.5 ft lower than the centerline of the T-rd. N., on top and at the W. end of the S. concrete headwall of the concrete box culvert; a standard tablet stamped "19 DDB 1976" 678.680

ISOLATED BENCH MARKS

- T. 77 N., R. 6 W., about 0.25 mi W. of center of sec. 9, 6 ft N. and 32 ft W. of T-rd. E., in concrete post; standard tablet stamped "TT 42 S 1929" 654.940
- T. 77 N., R. 6 W., in NW $\frac{1}{4}$ of sec. 11, about 0.5 mi W. of bridge over Iowa River, 170 ft NE. of RR. crossing, 23 ft N. of center of road; in concrete post; standard tablet stamped "TT 43 S 1929" 613.388
- Reference mark, 34.1 ft S., 15° E. of tablet, top of W. end of S. heading of concrete culvert; a chiseled square 614.96
- T. 77 N., Rs. 7 and 8 W., about 0.15 mi N. of cor. secs. 13, 18, 19 and 24, on hwy. bridge over English River, top of S. end of W. base of guard railing; chiseled square 671.52

FEET

ISOLATED BENCH MARKS (Cont'd)

T. 77 N., Rs. 7 and 8 W., cor. secs. 19, 24, 25 and 30, 20 ft N. and 40 ft W. of T-rd. W., top of N. end of iron culvert; painted square	752.39
T. 77 N., Rs. 7 and 8 W., cor. secs. 25, 30, 31 and 36, 35 ft S. and 35 ft W. of T-rd. W., in concrete post; standard tablet stamped "B 5 1930" (Not found, probably destroyed 6-68 SEM)	697.571
T. 76 N., Rs. 7 and 8 W., cor. secs. 7, 12, 13 and 18, 33 ft S. and 33 ft W. of crossroads, in concrete post; standard tablet stamped "B 6 1930" (Not found, probably destroyed 6-68 SEM)	784.249
T. 76 N., R. 7 W., 0.25 mi W. of cor. secs. 7, 8, 17 and 18, 15 ft N. and 225 ft W. of crossroads, top of concrete culvert; chiseled square	782.21
T. 76 N., R. 7 W., 0.25 mi W. of cor. secs. 17, 18, 19 and 20, 15 ft S. and 50 ft W. of crossroads, top of S. heading of concrete culvert; chiseled square	757.65
T. 76 N., R. 7 W., cor. secs. 19, 20, 29 and 30, 33 ft N. and 75 ft W. of T-rd. S., in top of concrete post; standard tablet stamped "B 7 1930" (Not found, probably destroyed 6-68 SEM)	779.233
Reference mark, 435 ft W. of tablet, top of N. heading of concrete culvert; chiseled square	779.48
1.5 mi W. along the C.M. St.P. & P. RR. from Haskins, 32 ft S. and 28 ft W. of center of N.-S. rd. at RR. crossing, 28.8 ft N. and 3.9 ft E. of power pole in SW. angle of rd. and RR. crossing, 2.5 ft lower than the RR. crossing and flush with the surface of the ground, standard tablet stamped "B 8 1930"	739.850
Reference mark, 345 ft N., 20° E. of tablet, top of W. guard wall concrete culvert; chiseled square	734.83
T. 75 N., R. 7 W., cor. secs. 5, 6, 7 and 8, 95 ft N. and 30 ft E. of T-rd. N., top of E. heading of concrete culvert; chiseled square	749.31