

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

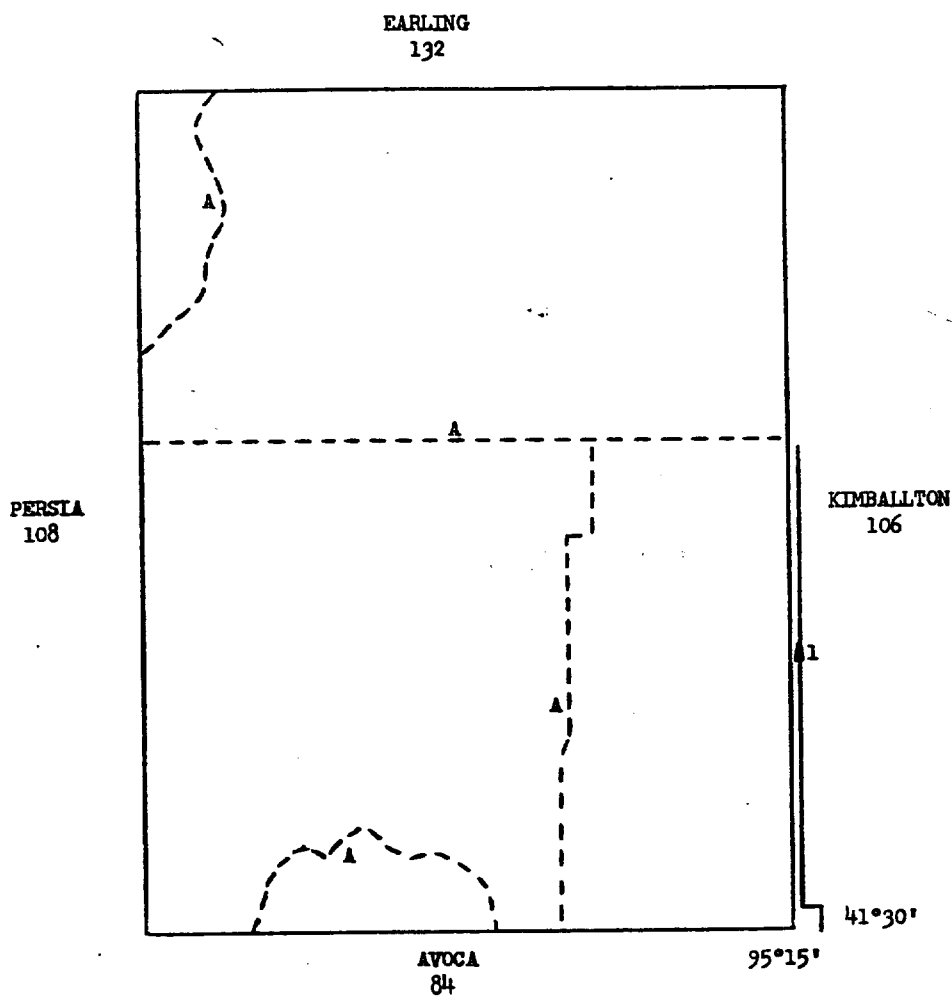
41-095-13
HARLAN QUADRANGLE
107 - IOWA
N4130-W9515/15
DIAGRAM NK 15-7
OMAHA

Final Adjustment of 1976

Shelby and Pottawattamie Counties

Edition of: 3/23-76

PR: ADP/JF/cb



USC&GS (N.G.S.) VERTICAL CONTROL DATA

A. Quadrangle No. 410951

107C

LINE 1

FEET

R.D. Yerzer, 1975; Book CV-3236

MARNE QUAD. - 83

1	4	0.0 Reference mark 2, for Triangulation Station WALNUT 1968; 62.68 ft W. of station and 1 ft N. of right-of-way fence and a metal witness post	1353.535
---	---	--	----------

KIMBALLTON QUAD. - 106

6	1.0	UE A, Walnut interchange U.S. 180, about 0.5 mi N. and 0.5 mi W. from, T. 78 N., R. 38 W., near S. cor. between secs. 32 and 33, 16 ft S. and 270 ft W. of T-rd. S., on center of S. wooden headwall of wood box culvert, a copper nail and washer	1311.83
7	1.3	UE B, T. 78 N., R. 38 W., near S. cor. secs. 31 and 32, 27 ft N. and 41 ft E. of crossroads, on E. end of a 6 ft diameter metal culvert, a punch hole	1275.07
11	2.3	BM, U.S. I-80 interchange at Walnut, about 1.5 mi N. and 1 mi W. from; T. 78 N., R. 38 W., near cor. secs. 29, 30, 31 and 32, 72 ft S. and 32 ft W. of T-rd. W., 1.8 ft E. of right-of-way fence, 1 ft E. of a metal witness post; rod supported standard tablet set in 6-in. tile filled with gravel and stamped "1 RDY 1975" (no R.M. for BM)	1357.666
14	4.0	UE 1 A, T. 78 N., R. 38 W., near cor. secs. 19, 20, 29 and 30; 24 ft N. and 25 ft W. of T-rd. S., on E. end of metal culvert; a punch hole	1314.30
17	5.4	UE 1 B, T. 78 N., R. 38 W., near W. sixteenth cor. between secs. 17 and 20; 21 ft S. and 150 ft E. of road at driveway N., on S. end of metal culvert; a punch hole	1292.77
19	6.2	Reference mark, 27.7 ft E. of BM, 15 ft E. of road, on E. end of SE. wingwall of concrete bridge, a chiseled square	1206.95
20	6.2	BM, U.S. I 80 interchange at Walnut, about 4 mi N. and 1 mi W. from; Harlan, about 0.6 mi S. and 4 mi E. of; T. 78 N., R. 38 W., near quarter cor. between secs. 17 and 18, 12 ft W. of road, 0.8 ft above bridge floor and 0.4 ft higher than center of bridge; at center of SW. concrete wingwall, a standard tablet stamped "2 RDY 1975"	1207.021
22	6.8	UE 2 A, T. 78 N., R. 38 W., near S. sixteenth cor. between secs. 7 and 8, 17 ft E. and 0.1 ft higher than road opposite at center of concrete headwall, a chiseled square	1267.52
25	7.6	UE 2 B, T. 78 N., R. 38 W., near cor. secs. 5, 6, 7 and 8; 41 ft N. and 40 ft E. of crossroads, on E. end of concrete tube culvert; a chiseled square	1202.98
26	8.2	UE 2 C, centerline of bridge copper nail and washer in wooden plank floor of steel bridge over E. branch of W. Nishnabotna River	1193.08
28	9.3	Reference mark, 90 ft SE. of BM, center of wood bridge, copper nail and washer	1206.93
29	9.4	BM, Harlan, 3 mi S. and 4 mi E. of, T. 79 N., R. 38 W., 0.25 mi W. of S. cor. between secs. 34 and 35; 85 ft N. and 32 ft W. of center of wooden bridge; 1.6 ft E. of right-of-way fence; 0.8 ft E. of metal witness post, rod supported standard USC&GS tablet set in 6-in. tile filled with gravel and stamped "3 RDY 1975"	1204.912
30	10.3	UE 3 A, T. 79 N., R. 38 W., 0.25 mi W. of cor. secs. 26, 27, 34 and 35; 26 ft N. and 24 ft W. of T-rd. W.; on W. end of metal culvert; a punch hole	1239.67
34	12.4	UE 3 C, T. 79 N., R. 38 W., near E. sixteenth cor. between secs. 15 and 22, at T-rd. S., a chiseled square in concrete hwy.	1290.11
35	12.5	BM, 3.9 mi E. along State Hwy. 64, from the jct. of State Hwy. 64, with State Hwy. 39 and U.S. Hwy. 59 at Harlan, just W. of the summit of a hill, on top of a cut bank, 34.8 ft S. of the centerline of the hwy. (sloping measurement), 41.4 ft SW. of pavement station No. 852, 33.3 ft W. of a 3-way cor. fence post, 0.5 ft N. of a fence, 1.2 ft E. of a reference post, set in the top of a concrete post and level with the ground	1340.844