

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

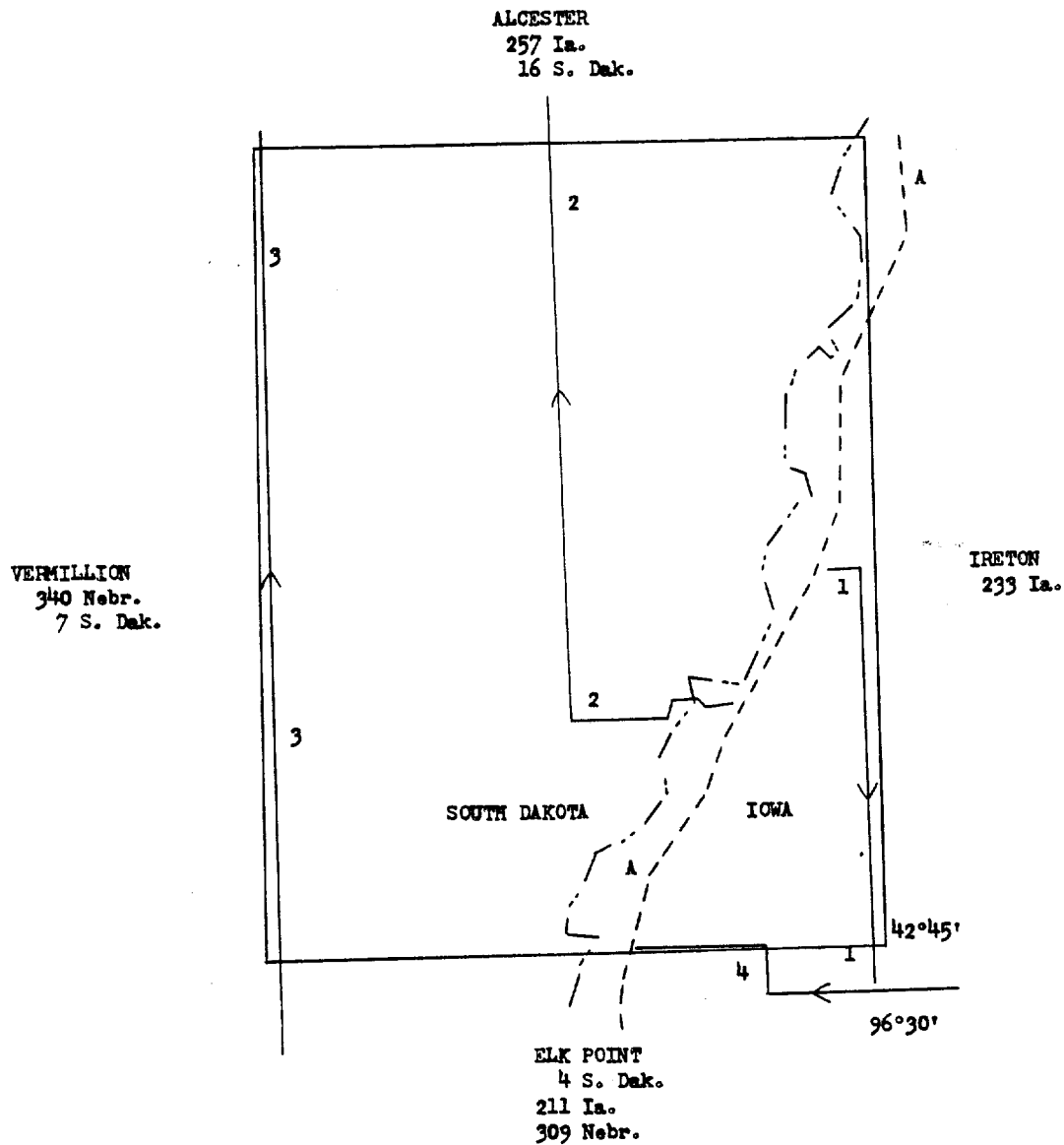
Final Adjustment of 1967

Plymouth and Sioux Counties, Iowa
Union County, S. Dak.

Edition of 11/30/67
PR: ADP/SB/mp

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AKRON QUADRANGLE
6 S. Dak., 234 Iowa
N4245-W9630/15
Diagram NK 14-6
Sioux City, Nebr., Ia., S. Dak.



USC&GS LEVELING

A. Quadrangle No. 420964

234 A

2
Akron Quadrangle
6 S. Dak., 234 Ia.

LINE 1

Feet

SOUTH ALONG SOUTH HALF EAST BORDER (by G. D. Seroggins, 1967; Book CV 2206)

AKRON QUAD., 6 S. Dak.
234 Iowa

- 1 38 0.0 Chatsworth, 3.0 mi S. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the RR. station at; in the S. end of the W. headwall of a 4 by 10 ft. concrete box culvert under State Hwy. 12; opposite RR. bridge T-536; 140 ft NE. of milepost 16; 77 ft E. of the E. rail, 20 ft W. of the center of the hwy., 1.2 ft N. of the S. end of the headwall; 0.6 ft above the level of the hwy., and about level with the top of the rails, a standard USC&GS disk, stamped "M 154" 1153.879
- 38 0.5 UE 154 A; 0.47 mi SW. along State Hwy. 12 from tablet; at center of T-rd. E., copper nail and washer, painted "UE 154 Centerline" 1156.83
- 39 1.4 UE 154 B; about 0.47 mi S. and 0.9 mi E. along rd. from tablet; T. 23 N., R. 48 W.; near the cor. of secs. 15, 16, 21 and 22; 36 ft S., 33 ft W. and 7.7 ft lower than crossroads; at base and on SW. side of power pole; head of rail spike, painted "UE 154 B" 1267.13
- 40 2.4 Akron, about 2.0 mi N. and 2.8 mi E. of; T. 93 N., R. 48 W.; near the cor. of secs. 21, 22, 27 and 28; 67 ft N., 58 ft E. and 2 ft higher than crossroads; 8 ft W. from SW. cor. of a white wood frame abandoned schoolhouse; 2.8 ft S. of metal witness post, in concrete post; standard tablet stamped "10 GDS 1967" painted "EM 10" 1318.571
- 40 2.4 Reference mark; 20 ft SE. of tablet; in center of bottom concrete step of abandoned schoolhouse; a chiseled square, painted "RM" 1318.20
- 41 3.0 UE 10 A; about 0.5 mi S. along rd. from tablet; T. 93 N., R. 48 W.; near quarter cor. between secs. 27 and 28; 37 ft W. and 0.7 ft higher than center of bridge over Beaver Creek; on S. end of W. concrete curbing of bridge; a chiseled square, painted "UE 10 A" NOTE: 18.7 ft above drain 1224.31
- 42 3.4 UE 10 B; about 1.0 mi S. along rd. from tablet; T. 93 N., R. 48 W.; near the cor. of secs. 27, 28, 33 and 34; 25 ft S., 33 ft W. and 2.3 ft lower than crossroads; on S. end of concrete pipe culvert; a chiseled cross, painted "UE 10 B" 1284.46
- 44 4.1 UE 10 C; about 1.7 mi S. along rd. from tablet; 17 ft W. and 0.5 ft higher than center of rd.; in center of W. concrete headwall of small box culvert; head of steel bolt, painted "UE 10 C" 1302.51
- 45 4.8 UE 10 D; about 2.0 mi S. along rd. from tablet; Ts. 92 and 93 N., R. 48 W.; near the cor. of secs. 3, 4, 33 and 34; 159 ft S., 37 ft E. and 3.9 ft higher than crossroads; at base on E. side of power pole; head of rail spike, painted "UE 10 D" 1374.95
- 46 4.8 UE 10 E; about 2.5 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the quarter cor. between secs. 3 and 4; 11 ft E. and 0.3 ft higher than center of bridge; on S. end of E. concrete curbing of bridge; a chiseled square, painted "UE 10 E" NOTE: 12 ft above drain 1288.24
- 47 5.5 Akron, 1.0 mi S. and 2.8 mi E. of; T. 92 N., R. 48 W.; near the cor. of secs. 3, 4, 9 and 10; 28 ft S., 208 ft E. and 5.4 ft lower than crossroads (State Hwy. 3); on top and in center of S. concrete headwall of a 3 x 3 ft box culvert; set in drill hole; a standard tablet stamped "11 GDS 1967" Painted "EM 11" 1355.068

<u>Line 1 Cont'd.</u>	<u>AKRON QUAD., 6 S. Dak.</u> <u>234 Ia.</u>	<u>Feet</u>
1 47 5.5	Reference mark; 28 ft N. and 208 ft W. of tablet; at center of crossroads; copper nail and washer, painted "RM"	1360.51
49 6.4	UE 11 A; about 1.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of secs. 9, 10, 15 and 16; 19 ft S., 32 ft E. and 2.6 ft lower than crossroads; on S. end of an 18-in. corrugated metal culvert; a punched hole	1291.72
50 7.1	UE 11 B; about 1.6 mi S. along rd. from tablet; 12 ft S., 26 ft W. and 2.5 ft lower than center of rd. at private drive W. to Harold Moffatt farm; on S. end of an 18-in. corrugated metal drive culvert; a punched hole, painted "UE 11 B"	1308.79
51 7.8	UE 11 C; 2.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of secs. 15, 16, 21 and 22; 25 ft N., 71 ft W. and 3.7 ft lower than crossroads; on N. end of most easterly of 2 large corrugated metal culvert; a punched hole, painted "UE 11 C"	1301.07
52 8.6	Akron, 4.0 mi S. and 2.8 mi E. of; Westfield, about 0.7 mi N. and 4.8 mi E. from; T. 92 N., R. 48 W.; near the cor. of secs. 21, 22, 27 and 28; 30 ft N., 230 ft E. and 4.9 ft lower than crossroads; 2.6 ft S. and 2 ft E. from SW. barnyard fence cor.; 19 ft S. and 4.7 ft E. from SE. cor. of a white wood frame building enclosing a water well; On property belonging to Julius Willer; 2.0 ft S. of metal witness post, in concrete post; a standard tablet stamped "12 QDS 1967" painted "RM 12"	1321.662
52 8.6	Reference mark; 280 ft W. of tablet; 17 ft S. and 49 ft W. of crossroads; on S. end of a damaged metal culvert; a punched hole	1323.28
54 9.6	UE 12 A Centerline; 1.0 mi S. along rd. from tablet; T. 92 N., R. 48 W.; near the cor. of secs. 27, 28, 33 and 34; at center of crossroads (County Hwy. A); a copper nail and washer, painted "UE 12 A Centerline"	1412.93

ELK POINT QUAD., 4 S. Dak.
211 Ia.
309 Nebr.

55 10.5	UE 12 B; about 1.8 mi S. along rd. from tablet; 22 ft E. and 3.7 ft lower than rd.; on E. end and on top of easternmost rivet of a 24-in. corrugated metal culvert; painted "UE 12 B"	1364.93
56 11.0	Westfield, 5.5 mi E. and 1.5 mi S. of; between secs. 3 and 34; R. 48 W., T. 92 N.; 60 ft S. of center of E.-W. rd., along quarter section fence; 24 ft S. of fence corner post; 18 inches W. of fence; in concrete post projecting 5 inches above ground; a standard tablet stamped "6 RS 1962"	1327.757

LINE 2

NORTH THROUGH CENTER OF QUADRANGLE (by G. D. Seargins, 1967; Book CV 2206)

AKRON QUAD., 6 S. Dak.
234 Ia.

2 1 0.0	At Akron, 90 ft SE. of the SE. rail of the Chicago, Milwaukee, St. Paul and Pacific RR., 1.8 ft S. of the NW. cor. of and set vertically 3 ft above the sidewalk in the W. wall of the city hall; a standard USCGS bench mark disk, stamped "A 154"	1146.973 ✓
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Akron Quadrangle
6 S. Dak., 23⁴ Ia.

Line 2 Cont'd.

AKRON QUAD., 6 S. Dak.
23⁴ Iowa

Feet

2	1	1.2	UE 15 ⁴ A; about 1.2 mi W.-NW. along rd. from disk; T. 93 N., R. 49 W.; near the center of sec. 36; on N. side of first double wood pole power line pole E. of Sioux River crossing and about 7 inches above ground; head of rail spike; painted "UE 15 ⁴ A"	1127.26
2	1	7	UE 15 ⁴ B Centerline; near quarter corner between secs. 35 and 36; T. 93 N., R. 49 W.; at centerline of T-field rd. E. on levee; rail spike driven flush with rd.; painted "UE Centerline"	1138.28
3	2	1	UE 15 ⁴ C Centerline; near quarter cor. between secs. 2 and 35; Ts. 92 and 93 N., R. 49 W.; at center of T-rd. S.; a rail spike flush with rd.; painted "UE Centerline"	1130.84
4	3	2	Akron, about 0.7 mi S. and 2.2 mi W. of; Ts. 92 and 93 N., R. 49 W.; near the cor. of secs. 2, 3, 34 and 35; 37 ft N., 227 ft W. and 2.7 ft lower than T-rd. N.; 4.8 ft E. of power pole; 1.7 ft W. of metal witness post; in concrete post; a standard tablet stamped "13 GDS 1967", painted "EM 13"	1128.710
3	3	1	Reference mark; E. of tablet; 28 ft N. and 31 ft E. of T-rd. N.; on N. end of a large corrugated metal culvert; a punched hole, painted "RM"	1130.82
6	3	8	UE 13 A; about 1.0 mi W. along rd. from tablet; Ts. 92 and 93 N., R. 49 W.; near the cor. of secs. 3, 4, 33 and 34; 32 ft S., 33 ft E. and 3.6 ft lower than crossroads; at base and on N. side of power pole; head of rail spike painted "UE 13 A"	1249.31
7	4	0	UE 13 B Centerline; T. 93 N., R. 49 W.; near the N. sixteenth cor. between secs. 33 and 34; at center of wooden bridge and 18.6 ft above drain; a copper nail and washer, painted "UE 13 B Centerline"	1197.52
7	5	2	UE 13 C; T. 93 N., R. 49 W.; near the cor. of secs. 27, 28, 33 and 34; 98 ft N., 67 ft E. and 3.9 ft higher than crossroads; on W. side of power pole and 1.0 ft above ground; head of rail spike, painted "UE 13 C"	1246.13
9	6	2	Akron, 2.0 mi N. and 3.2 mi W. of and 4.5 mi S. and 5.7 mi W. of Chatsworth; T. 93 N., R. 49 W.; near the cor. of secs. 21, 22, 27 and 28; 114 ft S., 37 ft E. and 4.3 ft lower than crossroads; (State Hwy. 48); 15 ft S. of fence corner; 2 ft W. of right-of-way fence; 1.5 ft E. of metal witness post; in concrete post, standard tablet stamped "14 GDS 1967" painted "EM 14"	1249.339
9	6	2	Reference mark; NE. of tablet; 27 ft S. and 157 ft E. of crossroads; on S. end of a corrugated metal culvert; chiseled cross, painted "RM"	1250.59
11	6	9	UE 14 A; 0.7 mi N. along rd. from tablet; 10 ft S., 30 ft E. and 0.7 ft higher than rd. at field entrance E.; which is at the summit of a hill; at base and on W. side of S. gate post; head of rail spike, painted "UE 14 A"	1363.06
12	7	2	UE 14 B; 1.0 mi N. along rd. from tablet; T. 93 N., R. 49 W.; near the cor. of secs. 15, 16, 21 and 22; 64 ft N., 69 ft E. and higher than crossroads; in center of bottom concrete step at S. entrance to schoolhouse; a chiseled square, painted "UE 14 B"	1289.55
14	8	2	UE 14 C; 2.0 mi N. along rd. from tablet; T. 93 N., R. 49 W.; near the cor. of secs. 9, 10, 15 and 16; 29 ft N., 31 ft E. and 0.5 ft higher than crossroads; at base and on W. side of powerline brace pole; head of rail spike, painted "UE 14 C"	1363.50

<u>Line 2 Cont'd.</u>	<u>AKRON QUAD., 6 S. Dak.</u> <u>234 Iowa</u>	<u>Feet</u>
2 15 8.6 Chatsworth, 2.1 mi S. and 5.7 mi W. of; T. 93 N., R. 49 W.; about 600 ft S. from quarter cor. between secs. 9 and 10; 19 ft W. and 2.8 ft lower than center of rd.; 6.9 ft above drain, on S. end of W. headwall of 5 x 3 ft. concrete box culvert; set in drill hole; a standard tablet stamped "15 GDS 1967" painted "EM 15"		1233.180
15 8.6 Reference mark; 38 ft E. of tablet; 19 ft E. of rd.; on N. end of E. concrete headwall; a chiseled square, painted "RM"		1232.48
16 9.2 UE 15 A; 0.6 mi N. along rd. from tablet; T. 93 N., R. 49 W.; near the cor. of secs. 3, 4, 9 and 10; 24 ft N., 16 ft W. and 1.5 ft lower than crossroads; on W. end of an 18-in. concrete pipe culvert; a chiseled square, painted "UE 15 A"		1239.26
17 10.2 UE 15 B Centerline; 1.6 mi N. along rd. from tablet; Ts. 93 and 94 N., R. 49 W.; near the cor. of secs. 3, 4, 33 and 34; 36 ft W. and 1.1 ft lower than crossroads; in center of wooden bridge over West Union Creek; a copper nail and washer, painted "UE 15 B Centerline" NOTE: 11.3 ft above drain		1259.69
19 11.2 Chatsworth, 0.5 mi N. and 5.7 mi W. of and 7.0 mi S. of Alcester; T. 94 N., R. 49 W.; near the cor. of secs. 27, 28, 33 and 34; 29 ft S., 80 ft E. and 0.2 ft higher than crossroads; 1.5 ft N. of right-of-way fence, 1.5 ft S. of metal witness post, in concrete post, a standard tablet stamped "16 GDS 1967" painted "EM 16"		1321.928
19 11.2 Reference mark; 125 ft NW. of tablet; 35 ft N. and 37 ft W. of crossroads; at base of and on E. side of power pole; head of rail spike, painted "RM"		1318.16
20 12.2 UE 16 A; 1.0 mi N. along rd. from tablet; T. 94 N., R. 49 W.; near the cor. of secs. 21, 22, 27 and 28; 46 ft S., 21 ft E. and 2.8 ft lower than crossroads; on E. end of an 18-in. corrugated metal culvert; a punched hole, painted "UE 16 A"		1407.63
21 13.2 UE 16 B; 2.0 mi N. along rd. from tablet; T. 94 N., R. 49 W.; near the cor. of secs. 15, 16, 21 and 22; 45 ft S., 49 ft E. and 5.4 ft lower than crossroads; on SE. end of concrete pipe culvert; a chiseled square, painted "UE 16 B"		1387.15
22 14.3 Alcester, 4.0 mi S. of; T. 94 N., R. 49 W.; near the cor. of secs. 9, 10, 15 and 16; 28 ft N., 106 ft E., and 0.7 ft higher than crossroads; 1.5 ft S. of N. right-of-way fence; 1.5 ft N. of metal witness post, in concrete post; standard tablet stamped "17 GDS 1967" painted "EM 17"		1419.880
22 14.3 Reference mark; 90 ft SW. of tablet; 28 ft S. and 30 ft E. of crossroads; on S. end of a concrete pipe culvert; a chiseled square, painted "RM"		1415.78
23 15.3 UE 17 A; 1.0 mi N. along rd. from tablet; T. 94 N., R. 49 W.; near the cor. of secs. 3, 4, 9 and 10; 19 ft S., 31 ft E. and lower than crossroads; on S. end of 18-in. concrete pipe culvert; chiseled square, painted "UE 17 A"		1460.19
24 16.3 UE 17 B Centerline; 2.1 mi N. along rd. from tablet; T. 94 and 95 N., R. 49 W.; near the cor. of secs. 3, 4, 33 and 34; at center of crossroads; a copper nail and washer, painted "UE 17 B Centerline"		1415.7

Akron Quadrangle
6 S. Dak., 234 Ia.

Line 2 Cont'd.

ALCESTER QUAD., 16 S. Dak.
257 Iowa

Feet

- 2 26 17.0 Alcester, 1.3 mi S. of; T. 95 N., R. 49 W.; about 850 ft N. from quarter cor. between secs. 33 and 34; 29 ft W. and 5.3 ft lower than center of rd.; about 240 ft S. from drive E. to George Steeneck farm; on N. end of W. headwall of a concrete box culvert; set in drill hole; a standard tablet stamped "18 GDS 1967" painted "EM 18" 1362.864
- 25 17.0 Reference mark; 56 ft E. of tablet; on S. end of E. concrete headwall; a chiseled square, painted "RM" 1363.69
- 27 17.3 UE 18 A Centerline; 0.3 mi N. along rd. from tablet; T. 95 N., R. 49 W.; near the cor. of secs. 27, 28, 33 and 34; at center of crossroads; head of spike nail, painted "UE 18 A Centerline" 1393.1
- 27 17.9 UE 18 B Centerline; 0.9 mi N. along rd. from tablet at Alcester, at the crossing of State Hwy. 11; on top of the N. rail of the main line of the Chicago and North Western RR.; painted "UE 18 B Centerline" 1356.3
- 28 18.9 Alcester, 0.9 mi W. along the C.&N.W. RR. from the station at, Union County; 60 yards E. of the crossing of a N. and S. sec. line rd., 47.1 ft N. of the N. rail and 2 ft S. of the right-of-way fence; a standard USC&GS disk stamped "U 148 1934" and set in the top of a concrete post projecting 4 inches above ground (recovered in fair condition; corners of post broken off) 1318.190

LINE 3

NORTH ALONG WEST BORDER (by G. D. Scroggins, 1967; Book CV 2206)

ELK POINT QUAD., 4 S. Dak.,
211 Ia., 309 Nebr.

- 3 12 0.0 Burbank, in Union County; 4.3 mi SE. along the C.M. St. P.&P. RR. from the station at; Clay County; 4.1 mi NW. from the station at Elk Point, Union County; at a farm rd. crossing, 41 ft NW. of the center of the farm rd., 31.3 ft SW. of the SW. rail and 1.5 ft NE. of the right-of-way fence; a standard USC&GS disk stamped "C 152 1934" and set in the top of a concrete post projecting 6 inches above ground 1127.465
- 12 0.8 UE 152 A; T. 91 N., R. 50 W.; near the cor. of secs. 3, 4, 9 and 10; 37 ft S., 32 ft E. and 0.8 ft lower than T-rd. E.; at base on W. side of utility pole; head of rail spike, painted "UE 152 A" 1128.92
- 13 1.8 UE 152 B; Ts. 91 and 92 N., R. 50 W.; near the cor. of secs. 3, 4, 33 and 34; 11 ft N., 35 ft W. and 1.6 ft lower than crossroads; on N. end of a concrete pipe culvert; a chiseled square, painted "UE 152 B" 1127.32

AKRON QUAD., 6 S. Dak.
234 Ia.

- 15 2.8 Elk Point, 4.0 mi N. and 2.5 mi W. of and 2.5 mi S. and 2.0 mi E. from the Community of Junction City; T. 92 N., R. 50 W.; near the cor. of secs. 27, 28, 33 and 34; 81 ft SE. and 2.9 ft lower than center of the N. bound lane of Interstate 29; in line with the S. edge of a section line rd. west; on SE. end of concrete headwall of a box culvert; set in drill hole; a standard tablet stamped "29 GDS 1967" painted "EM 29" 1126.747
- 14 2.8 Reference mark; 120 ft NW. of tablet; 37 ft W. from center of N. bound lane of Interstate Hwy. 29; near the center of the median, on W. end of a concrete pipe culvert; a chiseled square, not painted 1127.22

<u>Line 3 Cont'd.</u>		<u>AKRON QUAD., 6 S. Dak. 234 Ia.</u>	<u>Feet</u>
3	16 3.7	UE 29 A Centerline; 0.9 mi N. of tablet; at center of a steel frame bridge over drainage canal; 11 ft above drain; a copper nail and washer, painted "UE 29 A Centerline"	1129.77
17	4.8	UE 29 B; 2.0 mi N. of tablet; T. 92 N., R. 50 W.; near the cor. of secs. 15, 16, 21 and 22; 29 ft S., 20 ft W. and 2.1 ft lower than crossroads; on W. end of a concrete pipe culvert; a chiseled square, painted "UE 29 B"	1228.91
18	5.8	Elk Point, 7.0 mi N. and 2.5 mi W. of, and 0.5 mi N. and 2.0 mi E. from the Community of Junction City; T. 92 N., R. 50 W.; near the cor. of secs. 9, 10, 15 and 16; 31 ft N., 45 ft W. and 3.5 ft lower than crossroads; 3.5 ft N. and 2 ft W. of fence corner; 1.5 ft E. of metal witness post, in concrete post; standard tablet stamped "30 GDS 1967" painted "EM 30"	1228.910
18	5.8	Reference mark; 100 ft SE. of tablet; 39 ft S. and 34 ft E. of crossroads; on S. end of an 18-in. corrugated metal culvert; a punched hole, painted "EM"	1229.42
19	6.8	UE 30 A; 1.0 mi N. of tablet; T. 92 N., R. 50 W.; near the cor. of secs. 4, 5, 9 and 10; 21 ft S., 36 ft E. and 3.4 ft lower than crossroads; on S. end of an 18-in. corrugated metal culvert; a punched hole, painted "UE 30 A"	1234.73
20	7.8	UE 30 B; 2.0 mi N. of tablet; T. 92 and 93 N., R. 50 W.; near the cor. of secs. 3, 4, 33 and 34; 60 ft S., 20 ft E. and 1.2 ft lower than crossroads; on E. end of a 24-in. corrugated metal culvert; a punched hole, painted "UE 30 B"	1227.98
21	8.9	Elk Point, 10.0 mi N. and 2.5 mi W. of, and 1.0 mi S. from the Community of Spink; T. 93 N., R. 50 W.; near the cor. of secs. 27, 28, 33 and 34; 29 ft S., 48 ft E. and 2 ft lower than crossroads; 6 ft NE. of a utility pole; 3.5 ft S. and 5.7 ft E. of fence corner; 1 ft W. of metal witness post, in concrete post; standard tablet stamped "31 GDS 1967", painted "EM 30"	1233.669
21	8.9	Reference mark; 80 ft W. of tablet; 22 ft S. and 30 ft W. of crossroads; on S. end of an 18-in. corrugated metal culvert; a punched hole, painted "EM"	1234.02
22	9.9	UE 31 A; 1.0 mi N. of tablet; at Spink; T. 93 N., R. 50 W.; near the cor. of secs. 21, 22, 27 and 28; 180 ft S., 63 ft E. and 0.3 ft higher than crossroads; on NW. cor. of a concrete foundation supporting a Coop Oil Company sign; a chiseled square, painted "UE 31 A"	1238.45
23	10.2	UE 31 B; 1.3 mi N. of tablet; T. 93 N., R. 50 W.; near the S. sixteenth cor. between secs. 21 and 22; 1.5 ft below floor of bridge and 11.5 ft above water, on S. end of SW. concrete wingwall of a steel frame bridge over Brule Creek; a chiseled square, painted "UE 31 B"	1209.95
24	11.1	UE 31 C; 2.3 mi N. of tablet; T. 93 N., R. 50 W.; near the S. sixteenth cor. between secs. 15 and 16; 36 ft N., 31 ft W. and 0.2 ft lower than T-rd. E.; at base and on E. side of a utility pole, head of rail spike, painted "UE 31 C"	1261.90
26	11.9	Beresford, 14.0 mi S. and 1.5 mi E. of, and 2.0 mi N. from the Community of Spink; T. 93 N., R. 50 W.; near the cor. of secs. 9, 10, 15 and 16; 46 ft N., 69 ft E. and 5.5 ft lower than crossroads; on SW. cor. of bottom concrete step at E. entrance to the North Spink District 59 Schoolhouse; set in drill hole; a standard tablet stamped "32 GDS 1967" painted "EM 32"	1322.164

Akron Quadrangle
6 S. Dak., 23⁴ Ia.

Line 3 Cont'd.

AKRON QUAD., 6 S. Dak.
23⁴ Ia.

Feet

3	25	11.9	Reference mark; 47 ft E. of tablet; on SW. cor. of storm cellar and below bottom of door; a chiseled square, painted "RM"	1318.96
28	12.9	UE 32 A; 1.0 mi N. of tablet; T. 93 N., R. 50 W.; near the cor. of secs. 3, 4, 9 and 10; 18 ft N., 38 ft E. and 3.5 ft lower than T-rd. E.; on N. end of an 18-in. corrugated metal culvert; a punched hole, painted "UE 32 A"	1311.76	
30	13.9	UE 32 B; 2.0 mi N. of tablet; Ts. 93 and 94 N., R. 50 W.; near the cor. of secs. 3, 4, 33 and 34; 23 ft N., 29 ft E. and 3.4 ft lower than crossroads; on N. end of an 18-in. corrugated metal culvert; a punched hole, painted "UE 32 B"	1379.56	
32	14.9	Beresford, 11.0 mi S. and 1.5 mi E. of and 1.0 mi S. and 2.0 mi W. from the Community of Nora; T. 94 N., R. 50 W.; near the cor. of secs. 27, 28, 33 and 34; 43 ft S., 41 ft W. and 2 ft higher than crossroads; 3 ft W. of a telephone pole, 1 ft N. of metal witness post, in concrete post; standard tablet stamped "33 GDS 1967" painted "RM 33"	1383.054	
32	14.9	Reference mark; 105 ft NE. of tablet; 36 ft N. and 35 ft E. of crossroads; at base and on W. side of power pole; head of rail spike, painted "RM"	1375.39	
34	15.9	UE 33 A; 1.0 mi N. of tablet; T. 94 N., R. 50 W.; near the cor. of secs. 21, 22, 27 and 28; 41 ft S., 18 ft W. and 0.8 ft lower than crossroads; on W. end of a 36-in. corrugated metal culvert; a punched hole, painted "UE 33 A"	1319.50	
35	16.9	UE 33 B; 2.0 mi N. of tablet; T. 94 N., R. 50 W.; near the cor. of secs. 15, 16, 21 and 22; 17 ft S., 24 ft E. and 2.2 ft lower than crossroads; on S. end of an 18-in. corrugated metal culvert, a punched hole, painted "UE 33 B"	1298.93	
36	18.0	Beresford, 8.0 mi S. and 1.5 mi E. of; and 2.0 mi N. and 2.0 mi W. from the Community of Nora; T. 94 N., R. 50 W.; approximately 360 ft W. from the cor. of secs. 9, 10, 15 and 16; 18 ft S., 31 ft E. and 1.3 ft lower than center of a steel frame bridge over Brule Creek; 0.4 ft S. from E. end of S. steel girder of bridge; on S. end of E. concrete abutment, set in drill hole; a standard tablet stamped "94 GDS 1967" painted "RM" NOTE: 8.7 ft above water level 10/4/67	1282.945	
37	18.0	Reference mark; about 500 ft NE. of tablet; at SE. end of a steel frame bridge over Brule Creek; on top of southernmost rivet and painted red	1285.25	
37	19.1	UE 34 A; 1.0 mi N. of tablet; T. 94 N., R. 50 W.; near the cor. of secs. 3, 4, 9 and 10; 30 ft N., 13 ft E. and 2.2 ft higher than crossroads; in center of E. concrete headwall of box culvert; a chiseled square, painted "UE 34 A"	1297.49	

ALCESTER QUAD., 16 S. Dak.
257 Iowa

38	20.0	UE 34 B; 2.0 mi N. of tablet; Ts. 94 and 95 N., R. 50 W.; near the cor. of secs. 3, 4, 33 and 34; 10.5 ft S., 68 ft E. and 0.8 ft higher than crossroads; on top of SW. wood piling of bridge; a copper nail and washer, painted "UE 34 B"	1309.92
40	21.0	Beresford, 5.0 mi S. and 1.5 mi E. of; T. 95 N., R. 50 W.; near the cor. of secs. 27, 28, 33 and 34; 48 ft S., 46 ft W. and 1.7 ft lower than crossroads; 2 ft S. and 12 ft W. of fence corner; 1.5 ft N. of metal witness post; in concrete post projecting 3 inches above ground; a standard tablet stamped "95 GDS 1967" painted "RM 95"	1340.021
39	21.0	Reference mark; 62 ft SE. of tablet; 64 ft S. and 13 ft E. of crossroads; in center of E. concrete headwall; a chiseled square, painted "RM"	1338.71

LINE 4

Feet

WEST ALONG SOUTH BORDER (by R. W. Sidle, 1962; Book CV 1484)

SIOUX CITY NORTH QUAD., 210 Ia.
3 S. Dak.

17.7 UE; 0.9 mi E. from "6 RS" along gravel rd., 219 ft W. of N.-S. fence; 19 ft N. of center of rd., N. end of metal culvert; a chiseled square 1315.95

ELK POINT QUAD., 211 Ia.
4 S. Dak.
309 Nebr.

18.6 Westfield, 5.5 mi E. and 1.5 mi S. of; between secs. 3 and 34; R. 48 W., T. 92 N., 60 ft S. of center of E.-W. rd. along quarter section fence; 24 ft S. of fence corner post; 18 inches W. of fence, in concrete post; projecting 5 inches above ground; a standard tablet stamped "6 RS 1962" 1327.757

19.2 UE; 1.1 mi W. on gravel rd. from tablet; 138 ft W. from center of rd. at fence S., 17 ft S. of center of E.-W. rd. on S. end of metal culvert; chiseled square 1393.31

19.9 UE; 1.7 mi W. on gravel rd. from tablet; 19.2 ft N. of E.-W. rd. at private drive N.; 32.6 ft N. of the SW. fence corner of yard; 1.3 ft W. of yard gate; 7 inches from NW. cor. of sidewalk; chiseled square 1302.98

20.7 UE; 2.6 mi W. on gravel rd. from tablet; 0.6 mi S. from "7 RS"; 78 ft N. and 22 ft W. of center of T-rd. E.; 3.5 inches from W. end of metal culvert; a chiseled square 1324.93

21.3 Westfield, 3.0 mi E. and 1.3 mi S. of; between secs. 31 and 32; T. 92 N., R. 49 W.; 71 ft W. and 16.5 ft S. of center of rd. at private drive W.; 2.3 ft from fence post; 1.3 ft S. of E.-W. fence; in a concrete post; projecting 6 inches above ground; a standard disk stamped "7 RS 1962" 1346.053

AKRON QUAD., 6 S. Dak.
234 Ia.

22.4 UE; 2.6 mi E. on asphalt rd. from Westfield; 17 ft S. of center of E.-W. rd.; on top of 8 x 4-ft. concrete culvert; a chiseled square 1263.11

23.4 UE; 1.6 mi E. from Westfield on asphalt rd., 10 ft N. of center of E.-W. rd. at the center of the NE. cor. of a bridge; a chiseled square 1196.92

24.5 UE; 0.5 mi E. from Westfield on asphalt rd.; 187 ft N. of SW. cor. of barnyard lot fence; 56.7 ft SW. of NW. cor. of barnyard lot fence; 21.5 ft E. of center of rd. center of W. wall of drop inlet culvert; chiseled square 1164.94

25.0 Westfield, at; along the C.M.St.P.&P. RR.; about 150 ft W. of the track at the station, 34 ft NW. of the center of a sider rd., 8.2 ft N. of a powerline pole, 2 ft SE. of a three way corner fence post; 1.4 ft E. of a board fence, 1.3 ft N. of a reference post, set in the top of a concrete post projecting 0.4 ft above the ground; a USC&GS standard disk stamped "Y 145 1948" 1127.924

ISOLATED BENCH MARKS - - Not shown on diagramAKRON QMAD., 6 S. Dak.
294 Ia.Feet

T. 92 N., R. 49 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1293"	1292.7
T. 93 N., R. 49 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1347"	1346.7
T. 94 N., R. 49 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1383"	1382.0
T. 94 N., R. 48 W.; near NW. cor. sec. 6; iron post stamped "Ynktn 1358"	1357.1
T. 93 N., R. 48 W.; near NW. cor. of sec. 6; iron post stamped "Ynktn 1314"	1313.6
T. 91 N., R. 50 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1137"	1136.2
T. 92 N., R. 50 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1235"	1234.7
T. 93 N., R. 50 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1274"	1273.8
T. 94 N., R. 50 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1394"	1393.1
T. 94 N., R. 51 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1228"	1227.4
T. 93 N., R. 51 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1147"	1146.8
T. 92 N., R. 51 W.; NW. cor. of sec. 6; iron post stamped "Ynktn 1183"	1182.3