

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final adjustment of 1967

Plymouth and Sioux Counties

Edition of 12/6/67
PR: ADP/PH/mp

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

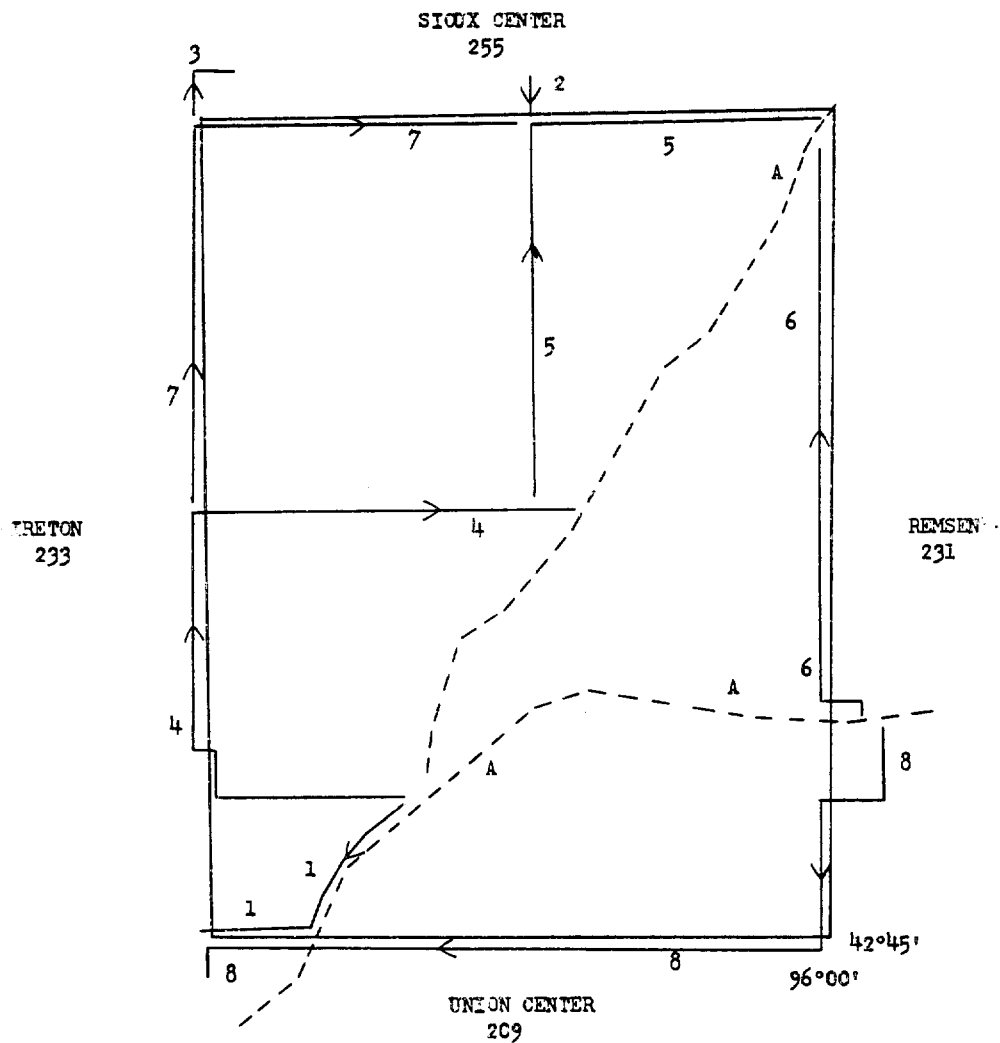
LeMARS QUADRANGLE

232 - Iowa

N4245-W9600/15

Diagram NK 14-6

Sioux City, Ia., Nebr., S. Dak.



232A

2
LeMars Quadrangle
232 - Iowa

LINE 1

Feet

SOUTH AND WEST NEAR SOUTHWEST CORNER OF QUADRANGLE (by G. D. Scroggins, 1967; Book CV 2206)

LeMARS QUAD., 232 Ia.

- 1 1 0.0 At LeMars, in the E. concrete wall of the post office, 32.8 ft E. of the E. side of the front steps, 17.5 ft N. of the N. edge of the sidewalk S. of the building, 0.7 ft N. of the E. corner, and 1.9 ft above ground; a standard USCGS disk stamped "LeMars 1934" and set vertically 1231.257
- 1 1.2 UE A; about 1.2 mi SW. along the Illinois Central RR. from the post office at LeMars; 83 ft N., 20 ft W. and 0.6 ft lower than T-rd. E.; on W. end of a 24-in. concrete tube culvert; a chiseled square, painted "UE" 1218.44
- 2 2.3 UE B Centerline; about 2.3 mi SW. along the I.C. RR. from the post office at LeMars; in center of crossroads; on E. side of track; a copper nail and washer, painted "UE Centerline" 1202.70
- 3 3.2 LeMars, about 3.1 mi SW. along U. S. Hwy. 74 from post office at; T. 92 N., R. 45 W.; near the center of the N. half of sec. 30; 20 ft E. and 0.8 ft higher than center of bridge at NE. end; on NE. end of E. concrete abutment of S. bound U. S. Hwy. 75 bridge over Floyd River; set in drill hole; a standard tablet stamped "1 GDS 1967" NOTE: 23.2 ft above water 1197.163
- 4 4.2 UE 1 A; about 0.9 mi S. and 0.1 mi W. along rd. from tablet; 151 ft S., 38 ft and 2.1 ft higher than center of County Hwy. "A" and gravel rd. N.; on E. end of an 18-in. corrugated metal culvert; a punched hole, painted "UE " 1216.11
- 5 5.2 UE 1 B; about 1.1 mi W. along County Hwy. "A" from junction of U. S. Hwy. 75; 23 ft N., 26 ft E. and 2.6 ft lower than crossroads; on N. end of an 18-in. concrete tube culvert; a chiseled square, painted "UE" 1230.22
- 6 5.8 UE 1 C; at County Hwy. "A" crossing of the Great Northern RR.; T. 91 N., R. 46 W.; near quarter cor. between secs. 26 and 35; at center of rd. and on top of E. rail; painted "UE Centerline" 1188.1

IRETON QUAD., 233

- 7 6.2 Reference mark; 168 ft NE. of tablet; at base and on S. side of power pole; head of rail spike, painted "RM" 1202.77
- 7 6.2 Brunsville, 4.0 mi S. and 1.0 mi E. of; T. 92 N., R. 46 W.; near cor. of secs. 26, 27, 34 and 35; 199 ft S., 25 ft W. and 3.8 ft lower than T-rd. S.; (junction of County Hwys. A and T); on top and in center of W. concrete retaining of concrete box culvert; set in drill hole; a standard tablet stamped "2 GDS 1967" painted "RM 2" 1206.277

LINE 2

NEAR CENTER OF NORTH BORDER (by L. M. Tackett, 1963; Book JV 1568)

STOIX CENTER QUAD., 255

- 7.1 UE 44 LMT A; T. 96 N., R. 45 W.; cor. secs. 23, 24, 25 and 26; 138 ft N., 29 ft E. and same elevation as crossroads; a chiseled square on S. end of a concrete tile culvert; 1358.53
- 8.1 UE 44 LMT B; T. 96 N., R. 45 W.; cor. secs. 25, 26, 35 and 36; 27 ft N., 41 ft E. and 0.2 ft lower than crossroads; a punched hole; in E. end of a steel culvert 1379.7

Line 2 Cont'd.

LeMARS QUAD., 232

Feet

- 9.2 Orange City, 3.1 mi W. of, along State Hwy. 10 from intersection of Co. Hwy. "P", Ts. 94 and 95 N., R. 45 W.; 57 ft N., 418 ft E. and 7 ft higher than center of crossroads; at approx. cor. secs. 1, 2, 35 and 36; 57 ft N., 146 ft E. from center of hwy. at concrete water drainage box, 4 ft S. and 44 ft W. from fence corner; (fences N.-E.); 1 ft S. and 1 ft W. of power pole; in a concrete post; a standard tablet stamped "17 WHV 1957 1406 ft" 1405.968

LINE 3

NORTHWEST CORNER OF QUADRANGLE (by L. M. Tackett, 1963; Book CV 1568)

IRETON QUAD., 233

- 0.0 Ireton, 1.5 mi N. and 3.0 mi E. from; 2.3 mi N. and 3.6 mi W. of Maurice, 4.0 mi W. from intersection of U. S. Hwy. 75 and State Hwy. 10; Ts. 94 and 95 N., R. 46 W.; 270 ft E., 48 ft S. and 3 ft higher than center of crossroads, at approx. cor. of secs. 1, 2, 35 and 36; 141 ft S. of white farmhouse, 3 ft E. of telephone pole, 1 ft N. of fence line, in a concrete post; a standard tablet stamped "24 WHV 1957 1409 ft" 1409.315

HUDSON QUAD., 256 Ia.
15 S. Dak.

- 1.1 UE 25 WHV F; T. 95 N., R. 46 W.; cor. secs. 26, 27, 34 and 35; 14 ft N., 34 ft E. and 2.7 ft lower than crossroads; a punched hole in N. end of a steel culvert 1443.30

SIoux CENTER QUAD., 255

- 2.1 UE 24 WHV G; T. 95 N., R. 46 W.; cor. secs. 25, 26, 35 and 36; 16 ft S. and 87 ft E. and 4 ft lower than crossroads; a chiseled square in center of S. headwall of a concrete culvert 1399.36

LINE 4

NORTH ALONG SOUTH PORTION OF WEST BORDER, THENCE EAST (by W. H. Veatch, 1957; Book CV 864)

LeMARS QUAD., 232

- 0.0 USC&GS standard disk stamped "LeMars 1934" (previously described in line 1) 1231.257
- 0.7 UE 1214.0; 0.7 mi W. of tablet; along State Hwys. 3 and 5; at the junction of Hwy. 75; 23 ft S., 30 ft W. and 0.1 ft higher than center of hwy., on the concrete curb at N. end of sidewalk; a chiseled square 1213.99
- 1.2 UE 1206.7; 1.2 mi W. of disk along State Hwys. 3 and 5; 10 ft N., 0.5 ft higher than center of concrete bridge over Floyd River, in center of N. headwall; 20.7 ft above water level, a chiseled square 1206.67
- 1.7 LeMars, 1.8 mi W. of, along State Hwys. 3 and 5; from the post office; 1.0 mi W. along State Hwys. 3 and 5 from intersection of U. S. Hwy. 75; 0.6 mi W. of concrete bridge over Floyd River; T. 92 N., R. 45 W.; 61 ft N., 203 ft W. and 3.1 ft higher than center of crossroads; at approx. cor. of secs. 7, 8, 17 and 18; 1 ft N. and 2 ft W. from telephone pole, in a concrete post; a standard tablet stamped "9 WHV 1957 1240 ft" 1239.842
- 1.7 Reference mark; 164 ft E. of tablet; 28 ft N., 39 ft W., center of rd. at crossroads; on the N. end of a 24-in. concrete pipe culvert; a chiseled square 1235.41

LeMars Quadrangle
232 - Iowa

<u>Line 4 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
2.2 UE 9 A; 0.5 mi W. of tablet along State Hwys. 3 and 5; T. 92 N., R. 45 W.; quarter cor. between secs. 7 and 18; center of hwy. opposite cross fences; copper nail and washer		1283.19
2.7 UE 9 B; 0.9 mi W. of tablet along State Hwys. 3 and 5; T. 92 N., Rs. 45 and 46 W.; at approx. cor. of secs. 7, 12, 13 and 18; 60 ft S., 34 ft W. and 1.6 ft lower than center of State Hwys. 3 and 5; at a T-rd. S.; 1 ft E. of power pole; on top of RR., steel projecting about 1 ft from ground		1234.13
3.2 UE 9 C; 1.4 mi W. of tablet along State Hwys. 3 and 5; top of the E. rail at center of hwy. crossing the Great Northern RR.		1208.1
3.7 UE 9 D; 1.9 mi W. of tablet; T. 92 N., R. 46 W.; 36 ft N., 24 ft E. and 3.6 ft lower than center of crossroads, at approx. cor. secs. 11, 12, 13 and 14; on the E. end of a 24-in. concrete pipe culvert; a chiseled square		1295.15

IRETON QUAD., 233

4.5 LeMars, 4.5 mi W. of along State Hwys. 3 and 5; from the post office; 1.0 mi S. and 1.25 mi E. of Brunsville; T. 92 N., R. 46 W.; about 0.25 mi E. from corner of secs. 10, 11, 14 and 15; 151 ft N., 31 ft W. and 1.9 ft higher than center of hwy. at T-rd. N.; 2 ft N. of power pole; 2 ft E. of fence line, in concrete post; standard tablet stamped "10 WHV 1957 1311 ft"	1310.570
4.5 Reference mark; 216 ft SE. of tablet; 50 ft N., 159 ft E. from center of hwy. at T-rd. N., in center of N. headwall of concrete box culvert; a chiseled square	1303.51
4.9 UE 10 A; 0.5 mi N. of tablet along gravel rd.; center of rd. opposite T-fence W.	1328.8
5.6 UE 10 B; 1.1 mi N. of tablet along gravel rd., T. 92 N., R. 46 W.; near cor. secs. 2, 3, 10 and 11; 76 ft N., 20 ft E. and 2.3 ft lower than center of rd. at T-rd. N. and fence line S.; on the E. end of a 24-in. steel pipe culvert; a punched hole	1320.9
6.1 UE 10 C; 1.6 mi N. of tablet along gravel rd., T. 92 N., R. 46 W.; at quarter cor. between secs. 2 and 3; center of rd. at trail T-rd. E.	1361.1
6.6 UE 10 D; 2.1 mi N. of tablet along gravel rd., Ts. 92 and 93 N., R. 46 W.; at approx. cor. secs. 2, 3, 34 and 35; 3 ft N., 34 ft E. and 0.1 ft higher than center of rd. at T-rd. W.; a rail spike in E. side of power pole projecting 6 inches above ground	1374.33
7.1 UE 10 E; 2.6 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; quarter cor. between secs. 34 and 35; center of rd. opposite T-fence W.	1370.9
7.4 LeMars, 4.5 mi W. of along Hwys. 3 and 5; thence 3.0 mi N. along gravel rd., 1.8 mi N. and 1.0 mi E. from Brunsville; T. 93 N., R. 46 W.; 662 ft S., 34 ft E. and 26.2 ft higher than center of crossroads; at approx. cor. secs. 26, 27, 34 and 35; 65 ft N., 34 ft E. from center of rd. opposite T-fence W.; 1 ft N. of power pole, 1 ft W. of fence line, in a concrete post; a standard tablet stamped "11 WHV 1957 1391 ft"	1390.554
7.6 Reference mark; 684 ft N. of tablet; 22 ft N., 19 ft E., center of rd. at crossroads; on the E. end of a 24-in. concrete pipe culvert; a chiseled square	1362.92
8.1 UE 11 A; 0.5 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; quarter cor. between secs. 26 and 27; 27 ft E. and 2.7 ft lower than center of rd. opposite cross fences, a rail spike in W. side of fence post projecting 2 inches above ground	1388.65

<u>Line 4 Cont'd.</u>	<u>IRETON QUAD., 233</u>	<u>Feet</u>
8.6 UE 11 B; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at approx. cor. secs. 22, 23, 26 and 27; 27 ft S., 20 ft W. and 1.5 ft lower than center of crossroads; on the W. end of a 24-in. steel pipe culvert; a punched hole		1389.1
9.0 UE 11 C; 1.5 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. between secs. 22 and 23; center of rd. opposite cross fences		1387.9
9.5 UE 11 D; 2.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at approx. cor. secs. 14, 15, 22 and 23; 38 ft S., 14 ft W. and 1.7 ft lower than center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole		1406.3
10.2 UE 11 E; 2.7 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; about 0.2 mi N. from quarter cor. between secs. 14 and 15; center of rd. at private T-rd. W. to farmhouse		1411.0
10.6 LeMars, 6.0 mi N. of along Hwy. 75 from intersection with Hwys. 3 and 5; thence 4.0 mi W. along gravel rd., T. 93 N., R. 46 W.; 33 ft N., 342 ft E. and 2.7 ft higher than center of crossroads; at approx. cor. of secs. 10, 11, 14 and 15; 308 ft E. from fence corner at fences N. and E., 1 ft S. and 2 ft W. from T-fence N., in a concrete post; a standard tablet stamped "12 WHV 1957 1408"		1408.257
10.6 Reference mark; 358 ft W. of tablet; 27 ft N., 16 ft W., center of rd. at crossroads; on the W. end of a 24-in. steel pipe culvert; a punched hole		1402.75
<u>LeMARS QUAD., 232</u>		
11.5 UE 12 A; 0.9 mi E. of tablet along gravel rd., T. 93 N., R. 46 W.; at cor. secs. 11, 12, 13 and 14; 42 ft S., 12 ft W. and 0.8 ft lower than center of crossroads, in center of W. concrete headwall of culvert; a chiseled square (7.8 ft above bottom of drain)		1311.95
12.0 UE 12 B; 1.4 mi E. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. between secs. 12 and 13; center of rd. opposite cross fences		1318.2
12.5 UE 12 C; 1.9 mi E. of tablet along gravel rd., T. 93 N., Rs. 45 and 46 W.; at cor. of secs. 7, 12, 13 and 18; 17 ft S., 28 ft W. and 3.9 ft lower than center of crossroads, on the S. end of a 36-in. steel pipe culvert; a punched hole		1279.7
13.3 Struble, 1.1 mi S. along the Great Northern RR. from the station; T. 93 N., R. 45 W.; 0.1 mi W. from T-rd. N., at approx. cor. of secs. 7, 8, 17 and 18; 800 ft W. of steel framed bridge over West Fork Creek; 66 ft S., 39 ft E. and 0.9 ft higher than center of E.-W. sec. line rd. crossing tracks, 47 ft E. of the E. rail, 1 ft S. of a T-fence E., in a concrete post; a standard tablet stamped "13 WHV 1957 1247 ft"		1247.088
13.3 Reference mark; 74 ft NW. of tablet; 17 ft S., 12 ft W. from center of E.-W. rd. crossing RR., on the S. end of a 24-in. concrete pipe culvert; a chiseled square		1245.29
13.4 UE 13 A; 0.15 mi E. of tablet along gravel rd., at center of bridge over West Fork Creek (15.2 ft above water level), copper nail and washer		1241.57
14.5 UE 13 B; 1.2 mi E. of tablet along gravel rd., T. 93 N., R. 45 W.; at cor. of secs. 8, 9, 16 and 17; 10 ft N., 28 ft W. and 0.3 ft lower than center of crossroads (intersection with U. S. Hwy. 75), on the N. end of a 24-in. steel pipe culvert; a punched hole		1327.0
15.0 UE 13 C; 1.7 mi E. of tablet along gravel rd., T. 93 N., R. 45 W.; at approx. quarter cor. secs. 9 and 16; center of rd. opposite cross fences		1351.7
15.5 UE 13 D; 2.2 mi E. of tablet along gravel rd., T. 93 N., R. 45 W.; at cor. of secs. 9, 10, 15 and 16; 26 ft S., 31 ft E. and 1.7 ft lower than center of crossroads, rail spike in N. side of power pole; projecting 6 inches above ground		1335.82

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<u>Line 4 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
16.0 UE 13 E; 2.7 mi E. of tablet along gravel rd., T. 93 N., R. 45 W.; approx. quarter cor. secs. between 10 and 15; at center of rd. opposite fence line S.		1346.7
16.5 Struble, 1.0 mi S. and 3.0 mi E. of; T. 93 N., R. 45 W.; 31 ft N., 98 ft E. and 2.8 ft lower than center of crossroads, at cor. secs. 10, 11, 14 and 15; 66 ft E. of fence corner (fences N.-E.); 2 ft E. of telephone pole, 1 ft S. of fence line, in a concrete post; a standard tablet stamped "14 WHV 1957 1367 ft"		1366.489
16.5 Reference mark; 146 ft SW. of tablet; 32 ft S., 36 ft W. and 4.6 ft lower than the center of crossroads; 1 ft S. and 1 ft W. of fence corner; on a 1-in. pipe projecting 3 inches above ground		1364.70
17.0 UE 14 A; 0.5 mi E. from tablet along gravel rd., approx. quarter cor. secs. 11 and 14; T. 93 N., R. 45 W.; center of rd. at cross fences		1329.7
17.5 UE 14 B; 1.0 mi E. from tablet along gravel rd., T. 93 N., R. 45 W.; at cor. secs. 11, 12, 13 and 14; 42 ft N., 22 ft W. and 2.9 ft lower than the center of crossroads; on W. end of 36-in. steel pipe culvert; a punched hole		1288.0
18.3 UE 14 C; 1.7 mi E. of tablet along gravel rd., T. 93 N., R. 45 W.; near the quarter cor. between secs. 12 and 13; center of State Hwy. 33 at intersection of T-rd. W.; top of copper nail and washer		1240.66
18.6 Seney, 2.0 mi NE. along the Soo Line RR., (formerly C.St.P.M.&O.RR.) from the station at; near milepost 237, 33.8 ft NW. of the NW. rail, 63 ft SE. of the center of State Hwy. 33, and in line with a row of poles, a USCGS standard disk stamped "V 15 1934" and set in the top of a concrete post projecting 4 inches above ground (Recovered in fair condition - 25 ft N., 77 ft E. and 3.7 ft lower than center of Hwy. 33 at private drive W. to farmhouse. NOTE: This BM has been hit and the corners of the post are broken off, but tablet seems to be solid and still straight)		1233.967

LINE 5

NORTH THROUGH CENTER OF NORTH PORTION OF QUADRANGLE THENCE EAST (by W. H. Veatch, 1957; Book CV 864)

	<u>LeMARS QUAD., 232</u>	
0.0 "UE 14 B" (described in line 4)		1288.0
0.5 UE 14 D; 1.0 mi E. and 0.5 mi N. of "14 WHV 1957" along gravel rd., T. 93 N., R. 45 W.; at quarter cor. between secs. 11 and 12; center of rd. at trail T-rd. E.		1292.9
1.0 UE 14 E; 1.0 mi E. and 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 45 W.; on cor. secs. 1, 2, 11 and 12; 38 ft S., 19 ft W. of the center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole		1345.9
1.5 UE 14 F; 1.0 mi E. and 1.5 mi N. of tablet along gravel rd., T. 93 N., R. 45 W.; quarter cor. between secs. 1 and 2; center of rd. at T-fence W.		1385.6
2.1 Struble, 1.0 mi N. and 4.0 mi E. from; 6.0 mi S. and 3.0 mi W. from Orange City; T. 93 and 94 N., R. 45 W.; 301 ft N., 32 ft E. and 4.4 ft higher than center of crossroads, at approx. cor. secs. 1, 2, 35 and 36; 1 ft S. of telephone pole; 1 ft W. of fence line, in a concrete post; standard tablet stamped "15 WHV 1957 1394 ft" (Reported destroyed 6/60 RCN)		1393.423
2.0 Reference mark; 281 ft S. of tablet; 19 ft N., 30 ft E. from center of crossroads, on the N. end of a 24-in. steel pipe culvert; a punched hole		1388.5

<u>Line 5 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
2.5 UE 15 A; 0.4 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; quarter cor. between secs. 35 and 36; center of rd. opposite fence line W.		1361.5
3.0 UE 15 B; 0.9 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; at cor. secs. 25, 26, 35 and 36; 33 ft N., 33 ft E. and 1.8 ft lower than center of crossroads; a rail spike in W. side of power pole projecting 6 inches above ground		1371.10
3.4 UE 15 C; 1.3 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; near quarter cor. between secs. 25 and 26; center of small wooden bridge over creek, copper nail and washer		1323.33
4.0 UE 15 D; 2.0 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; cor. secs. 23, 24, 25 and 26; 36 ft N., 30 ft W. and 1.6 ft lower than center of crossroads, a rail spike in E. side of telephone pole, projecting 3 inches above ground		1384.42
4.5 UE 15 E; 2.5 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; at quarter cor. between secs. 23 and 24, center of rd. opposite cross fences		1393.6
5.1 Orange City, 3.0 mi S. and 3.0 mi W. from; T. 94 N., R. 45 W.; 511 ft N., 30 ft W. and 0.5 ft higher than center of crossroads, at approx. cor. secs. 13, 14, 23 and 24; 1 ft N. of power pole, 1 ft E. of fence line, in a concrete post; a standard tablet stamped "16 WHV 1957 1392 ft"		1392.137
5.1 Reference mark; 481 ft S. of tablet; 30 ft N., 14 ft E. from center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole		1390.91
5.5 UE 16 A; 0.4 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; at quarter cor. between secs. 13 and 14; center of rd. at cross fences		1425.1
6.0 UE 16 B; 0.9 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; at cor. secs. 11, 12, 13 and 14; 27 ft S., 23 ft E. and 3.2 ft lower than center of crossroads; on the S. end of a 24-in. steel pipe culvert, a punched hole		1392.1
6.5 UE 16 C; 1.4 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; at quarter cor. between secs. 11 and 12; center of rd. opposite fence line E.		1365.22
7.0 UE 16 D; 1.9 mi N. of tablet along gravel rd., T. 94 N., R. 45 W.; cor. secs. 1, 2, 11 and 12; 17 ft N., 26 ft W. and 2.8 ft lower than center of crossroads, on the N. end of a 24-in. steel pipe culvert, a punched hole		1333.6
7.2 UE 16 E; 2.1 mi N. of tablet along gravel rd., top of S. rail at N.-S. section line rd. crossing the Chicago and North Western RR.		1351.8
8.1 "17 WHV 1957 1406 ft" (Previously described in line 2)		1405.968
8.0 Reference mark; 404 ft SW. of tablet, 35 ft S., 20 ft E. from center of crossroads, on the E. end of a 24-in. concrete pipe culvert, a chiseled square		1398.06
8.5 UE 17 A; 0.4 mi E. of tablet along Hwy. 10; Ts. 94 and 95 N., R. 45 W.; at quarter cor. between secs. 1 and 36; center of hwy. at cross fences; copper nail and washer		1384.88
9.0 UE 17 B; 0.9 mi E. of tablet along Hwy. 10; Ts. 94 and 95 N., Rs. 44 and 45 W.; at cor. secs. 1, 6, 31 and 36; 42 ft N., 26 ft E. and 1.9 ft lower than center of crossroads, on the E. end of a 24-in. concrete pipe culvert; a chiseled square		1391.02
9.5 UE 17 C; 1.4 mi E. of tablet along Hwy. 10; Ts. 94 and 95 N., R. 44 W.; near quarter cor. between secs. 6 and 31; 13 ft S. and 0.3 ft higher than center of concrete bridge over creek, in center of S. concrete retaining wall (11 ft above water level); a chiseled square		1363.16

LeMars Quadrangle
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<u>Line 5 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
10.5 UE 17 D; 1.9 mi E. of tablet along Hwy. 10; T. 95 N., R. 44 W.; about 0.1 mi N. from corner of secs. 5, 6, 31 and 32; 20 ft S., 44 ft E. and 4 ft lower than center of hwy. at crossroads, on the S. end of a 24-in. concrete pipe culvert; a chiseled square		1376.31
10.5 Orange City, 0.5 mi W. of along State Hwy. 10 from intersection of Co. Hwy. "P"; Ts. 94 and 95 N., R. 44 W.; at approx. quarter cor. between secs. 5 and 32; 48 ft N., 28 ft E. and 2.8 ft higher than center of State Hwy. 10 at intersection of T-rd. N. (W. End St.); 3 ft S. and 11 ft E. from fence corner (fences N.-SE.); 2 ft S. of fence line, 1 ft N. of powerline brace pole, in a concrete post, a standard tablet stamped "18 WHV 1957 1412"		1411.341
10.5 Reference mark; 49 ft W. of tablet, 32 ft N., 27 ft W. from center of State Hwy. 10 at a T-rd. N., on the W. end of a 24-in. concrete pipe culvert; a chiseled square		1407.53
11.0 UE 18 A; 0.5 mi E. of tablet along Hwy. 10; Ts. 94 and 95 N., Rs. 44 and 45 W.; cor. secs. 1, 2, 35 and 36; center of Hwy. 10 at intersection of Co. Hwy. "F"		1433.6
12.0 UE 18 B; 1.5 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 44 W.; at cor. secs. 3, 4, 33 and 34; 16 ft S., 46 ft W. and 1.1 ft higher than center of crossroads, in the center of the S. headwall of a box culvert; a chiseled square		1349.15
12.5 UE 18 C; 2.0 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 44 W.; at approx. quarter cor. secs. 3 and 34; at center of Hwy. opposite cross fences, a copper nail and washer		1336.46
13.0 UE 18 D; 2.5 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 44 W.; cor. secs. 2, 3, 34 and 35; 31 ft S., 34 ft W. and 0.4 ft lower than center of crossroads; a rail spike in S. side of power pole projecting 6 inches above ground		1321.72
13.5 UE 18 E; 2.6 mi E. along Hwy. 10; thence 0.4 mi S. along hwy., top of N. rail at center of N.-S. rd., crossing the Chicago and North Western RR.		1304.8
14.2 Alton, at, 400 yards SW. of Soo Line RR., (formerly C.St.P.M. & O. RR.) station, 111 yards SW. of the crossing of State Hwy. 10; 73 ft S. of the switch at the NE. end of the sidetrack, 77.7 ft SE. of the SE. rail of the main track, 60.3 ft SE. of the SE. rail of the sidetrack, 19.5 ft NW. of the right-of-way fence, and in line with a row of poles; USCGS standard disk stamped "A 16 1934" and set in the top of a concrete post projecting 5 inches above ground		1305.614

LINE 6

NORTH ALONG EAST BORDER (by W. H. Veatch, 1957; Book CV 864)

	<u>REMSEN QUAD., 231</u>	
0.0 Remsen at, about 172 yards E. of the Illinois Central RR. station, 54.7 ft S. of the S. rail of the main track, at the Light and Power Plant building, in the first row of brick of the W. wall, 1 ft S. of the NW. cor. and about 3.6 ft above ground; USCGS standard disk stamped "Remsen 1934" and set vertically		1330.089
0.3 UE 1324.3; 0.3 mi W. along RR. from tablet; top of S. rail at center of N.-S. sec. line rd. crossing tracks		1324.3

<u>Line 6 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
0.8 UE 1308.2; 0.3 mi W. along RR., thence 0.5 mi N. along gravel road from disk; Ts. 92 and 93 N., Rs. 43 and 44 W.; at cor. of secs. 1, 6, 31 and 36; 19 ft S., 28 ft E. and 2.8 ft lower than center of crossroads, on the S. end of a 24-in. steel pipe culvert; a punched hole		1308.2
1.4 UE 1339.8; Remsen, 0.5 mi N. and 0.8 mi W. of from depot; Ts. 92 and 93 N., R. 44 W.; at quarter cor. between secs. 1 and 36; center of rd. at T-rd. S.		1339.8
1.9 UE 1330.0; Remsen, 0.5 mi N. and 1.3 mi W. from depot, Ts. 92 and 93 N., R. 44 W.; at cor. secs. 1, 2, 35 and 36; 36 ft S., 26 ft W. and 4.4 ft lower than center of rd., at T-rd. N., a rail spike in S. side of power pole, projecting 1 ft above ground		1330.03
2.4 UE 1310.2; Remsen, 1.0 mi N. and 1.3 mi W. from; T. 93 N., R. 44 W.; near quarter cor. between secs. 35 and 36; at center of small wooden bridge over creek; 5.5 ft above water level		1310.2
2.9 Remsen, 1.5 mi N. and 1.5 mi W. from; T. 93 N., R. 44 W.; 206 ft N., 32 ft E. and 10.7 ft higher than center of crossroads, at approx. cor. of secs. 25, 26, 35 and 36; 104 ft NW. from NW. cor. of schoolhouse, 21 ft N. of telephone pole, 1 ft S. of fence corner, at angle in fence N. and SE., in a concrete post; a standard tablet stamped "19 WHV 1957 1388 ft"		1388.393
2.9 Reference mark; 248 ft SW. of tablet, 18 ft S., 70 ft W. of center of rd. at crossroads, on the S. end of a 24-in. steel pipe culvert; a punched hole		1374.78
3.4 UE 19 A; 0.5 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; at quarter cor. between secs. 25 and 26; center of rd. opposite cross fences		1402.7
3.9 UE 19 B; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; at cor. of secs. 23, 24, 25 and 26; 24 ft S., 17 ft E. and 1.3 ft lower than center of crossroads; on the W. end of a 24-in. steel pipe culvert, a punched hole		1401.5
4.4 UE 19 C; 1.5 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; at quarter cor. between secs. 23 and 24; center of rd. opposite cross fences		1436.0
4.9 UE 19 D; 2.0 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; at cor. secs. 13, 14, 23 and 24; 27 ft S., 16 ft E. and 1.7 ft lower than the center of crossroads; on the E. end of a 24-in. steel pipe culvert; a punched hole		1405.2
5.4 UE 19 E; 2.5 mi N. of tablet; T. 93 N., R. 44 W.; quarter cor. between secs. 13 and 14; center of rd. at cross fences		1393.7
6.0 Remsen, 4.5 mi N. and 1.5 mi W. from the depot; 7.0 mi S. and 0.5 mi E. from Alton, T. 93 N., R. 44 W.; 391 ft N., 34 ft W. and 20.5 ft lower than center of crossroads, at approx. cor. of secs. 11, 12, 13 and 14; 0.25 mi S. of wooden bridge over Willow Creek; 2 ft N. of power pole, 1 ft E. of fence line, in concrete post; a standard tablet stamped "20 WHV 1957 1354 ft"		1353.821
5.9 Reference mark; 357 ft S. of tablet; 34 ft N., 26 ft W. and 3.1 ft lower than center of crossroads, on the E. side of power pole; a rail spike projecting 2 inches above ground		1369.08
6.3 UE 20 A; 0.25 mi N. of tablet along gravel rd., center of wooden bridge over Willow Creek; (6.3 ft above water level); copper nail and washer		1315.01
7.0 UE 20 B; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; cor. secs. 1, 2, 11 and 12; 36 ft N., 35 ft W. and 2.8 ft lower than center of crossroads, a rail spike in W. side of power pole, projecting 6 inches above ground		1304.99

<u>Line 6 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
7.5 UE 20 C; 1.7 mi N. of tablet along gravel rd., T. 93 N., R. 44 W.; about 0.2 mi N. from quarter cor. between secs. 1 and 2; center of wooden bridge over creek; (3.2 ft above water level) a copper nail and washer		1311.51
8.0 UE 20 D; 2.0 mi N. of tablet along gravel rd., at the Plymouth and Sioux Co. line; Ts. 93 and 94 N., R. 44 W.; at cor. secs. 1, 2, 35 and 36; 39 ft S., 16 ft W. and 1.5 ft lower than center of crossroads, on the W. end of a 24-in. steel pipe culvert, a punched hole		1325.0
8.5 UE 20 E; 2.5 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; at quarter cor. between secs. 35 and 36; center of rd. opposite cross fences		1355.8
9.0 Remsen, 7.5 mi N. and 1.5 mi W. from the depot, 4.0 mi S. and 0.5 mi E. from Alton, T. 94 N., R. 44 W.; 1.0 mi N. of the Plymouth and Sioux County line; 226 ft N., 31 ft E. and 5.8 ft higher than center of crossroads, at approx. cor. secs. 25, 26, 35 and 36; 9 ft N. of telephone pole, 1 ft W. of fence line, in a concrete post; a standard tablet stamped "21 WHV 1957 1380 ft"		1380.469
9.0 Reference mark; 212 ft S. of tablet along gravel rd., T. 94 N., R. 44 W.; cor. secs. 25, 26, 35 and 36; 14 ft N., 28 ft E. and 0.7 ft lower than center of crossroads, on the N. end of a 24-in. steel pipe culvert; a punched hole		1374.0
9.5 UE 21 A; 0.5 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; quarter cor. between secs. 25 and 26; center of rd. opposite cross fences		1396.1
10.0 UE 21 B; 1.0 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; cor. secs. 23, 24, 25 and 26; 31 ft S., 14 ft E. and 0.3 ft higher than center of crossroads; on the E. end of a 24-in. steel pipe culvert; a punched hole		1353.1
10.5 UE 21 C; 1.5 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; at quarter cor. between secs. 23 and 24; center of rd. opposite cross fences		1354.7
11.0 UE 21 D; 2.0 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; cor. secs. 13, 14, 23 and 24; 33 ft N., 36 ft W. and 2.1 ft higher than center of crossroads, a rail spike in W. side of power pole projecting 6 inches above ground (reported destroyed)		1381.88
11.5 UE 21 E; 2.5 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; quarter cor. secs. 13 and 14; center of rd. opposite cross fences		1364.4
12.0 Alton, 1.0 mi S. and 0.5 mi E. of; T. 94 N., R. 44 W.; 166 ft N., 28 ft E. and 6 ft lower than center of T-rd. E.; at approx. cor. secs. 11, 12, 13 and 14; 0.7 mi S. of crossing of the C.&N.W. RR. with N.-S. section line rd., 15 ft W. of a light pole on a raised hump in the center of rd. ditch; in a concrete post, standard tablet stamped "22 WHV 1957 1331"		1330.672
11.9 Reference mark; 161 ft SW. of tablet; 14 ft N., 27 ft W. from center of crossroads, on the N. end of a 24-in. steel pipe culvert, a punched hole		1336.2
12.7 UE 22 A; 0.7 mi N. of tablet along gravel rd., T. 94 N., R. 44 W.; near quarter cor. between secs. 11 and 12; top of S. rail at center of N.-S. section line rd. crossing the C.&N.W. RR.		1313.7
13.5 "A 16 1934" (described in line 5)		1305.614

<u>LINE 7</u>	<u>Feet</u>
NORTH ALONG NORTH PORTION OF WEST BORDER, THENCE EAST (by W. H. Veatch, 1957; Book CV 864)	
<u>IRETON QUAD., 233</u>	
0.0 "12 WHV 1957" (described in line 4)	1408.257
0.5 UE 12 D; 0.5 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; at quarter cor. secs. 10 and 11; center of rd. opposite T-fence E.	1398.9
1.0 UE 12 E; 1.0 mi N. of tablet along gravel rd., T. 93 N., R. 46 W.; cor. secs. 2, 3, 10 and 11; 9 ft S., 163 ft E. and 1.6 ft lower than center of crossroads, in center of S. headwall of concrete bridge (10.2 ft above water level); a chiseled square	1379.43
1.4 UE 12 F; 1.4 mi N. of tablet along gravel rd., center of wooden bridge over creek, copper nail and washer	1383.53
2.1 Struble, 1.0 mi N. and 3.0 mi W. from; 1.0 mi N. and 3.0 mi E. from Craig, at the Plymouth and Sioux Co. line, Ts. 93 and 94 N., R. 46 W.; 198 ft N., 26 ft E. and 0.6 ft higher than center of crossroads, at approx. cor. secs. 2, 3, 34 and 35; 36 ft N., 26 ft E. from center of rd. at driveway W. to farmhouse, 3 ft N. of telephone pole, 1 ft W. of fence line, in a concrete post; a standard tablet stamped "23 WHV 1957 1407 ft"	1406.431
2.1 Reference mark; 166 ft S. of tablet; 32 ft N., 12 ft E. from center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole	1403.96
2.6 UE 23 A; 0.5 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; quarter cor. between secs. 34 and 35; center of rd. opposite cross fences	1407.6
3.1 UE 23 B; 1.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; cor. secs. 26, 27, 34 and 35; 38 ft N., 17 ft W. and 0.5 ft lower than center of crossroads, on the W. end of a 24-in. concrete pipe culvert, a chiseled square	1418.88
4.1 UE 23 C; 2.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; cor. secs. 22, 23, 26 and 27; 56 ft S., 16 ft W. and 2.8 ft lower than center of crossroads, on W. end of a 30-in. steel pipe culvert, a punched hole	1364.3
4.6 UE 23 D; 2.5 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; near quarter cor. between secs. 22 and 23; center of wooden bridge over creek, (5.9 ft above bottom of drain); a copper nail and washer	1362.03
5.1 UE 23 E; 3.0 mi N. of tablet along gravel rd., T. 94 N., R. 46 W.; cor. secs. 14, 15, 22 and 23; 121 ft S. and 9 ft E. and 0.74 ft higher than center of crossroads, on the N. end of the E. headwall of concrete culvert; a chiseled square	1353.47
5.4 Chenhall Azimuth Mark; approximately 1.0 mi SW. of station; reached from station by going W. on rd. leading to station; 0.75 mi to crossroads, thence S. 0.75 mi to E.-W. fence line on W. side of rd., mark is approximately 0.15 mi S. of church house, 110 ft W. and 2.9 ft higher than center of rd. opposite cross fences, 1 ft N. of E.-W. fence; mark projects approx. 4 inches above ground	1387.292
5.4 Reference mark; 143 ft E. of tablet; 23 ft S., 32 ft E. from center of rd. opposite cross fences, in root on SW. side of group of five 8-in. cottonwood trees, a copper nail and washer	1381.97

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Line 7 Cont'd.IRETON QUAD., 233Feet

- 6.1 UE 1404.8; 0.8 mi N. of Azimuth Mark; T. 94 N., R. 46 W.; cor. secs. 10, 11, 14 and 15; 32 ft N., 32 ft W. and 0.9 ft higher than center of crossroads, a rail spike in S. side of power pole, projecting 6 inches above ground 1404.66
- 6.7 UE 1445.4; 1.4 mi N. of Azimuth Mark; T. 94 N., R. 46 W.; about 0.1 mi N. from quarter cor. between secs. 10 and 11; top of S. rail at center of N.-S. section line rd. crossing the C.&N.W. RR. 1445.3
- 7.1 UE 1445.0; 1.8 mi N. of Azimuth Mark along gravel rd., T. 94 N., R. 46 W.; cor. secs. 2, 3, 10 and 11; 16 ft S., 37 ft W. and 2.8 ft lower than center of crossroads, on the S. end of a 24-in. steel pipe culvert, a punched hole 1444.9
- 7.7 UE 1427.3; 2.3 mi N. of Azimuth Mark along gravel rd., T. 94 N., R. 46 W.; at quarter cor. between secs. 2 and 3; center of rd. opposite cross fences 1427.2
- 8.2 "24 WHV 1957 1409 ft" (previously described in line 3) 1409.315
- 8.2 Reference mark; 248 ft W. of tablet; 48 ft S., 18 ft E. from center of crossroads, on the E. end of a 24-in. concrete pipe culvert; a chiseled square 1405.31

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- 8.7 UE 24 A; 0.4 mi E. of tablet along State Hwy. 10; center of hwy. at T-rd. S. 1370.9
- 9.2 UE 24 B; 0.9 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 46 W.; cor. secs. 1, 2, 35 and 36; 48 ft S., 33 ft W. and 3.3 ft lower than center of hwy. at crossroads, a rail spike in N. side of telephone pole, projecting 6 inches above ground 1372.82
- 9.7 UE 24 C; 1.4 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 46 W.; at quarter cor. between secs. 1 and 36; center of hwy. opposite cross fences, copper nail and washer 1373.41
- 10.2 UE 24 D; 1.9 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., Rs. 45 and 46 W.; at cor. secs. 1, 6, 31 and 36; 49 ft N., 37 ft W. and 0.3 ft lower than center of crossroads; a rail spike in S. side of power pole, projecting 6 inches above ground 1360.83
- 10.6 UE 24 E; 2.4 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; at quarter cor. between secs. 6 and 31; center of hwy. opposite cross fences 1388.4
- 11.2 Maurice, 2.3 mi N. and 0.7 mi W. from; 1.0 mi W. from intersection of U. S. Hwy. 75 and State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; 48 ft S., 184 ft E. and 5 ft lower than center of crossroads, at approx. cor. secs. 5, 6, 31 and 32; 3 ft E. of telephone pole, 1 ft N. of fence line, in a concrete post; a standard tablet stamped "25 WHV 1957 1321" 1320.860
- 11.2 Reference mark; 222 ft NW. of tablet; 42 ft N., 19 ft W. from center of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square 1324.99
- 11.7 UE 25 A; 0.5 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; at quarter cor. between secs. 5 and 32; center of hwy. opposite cross fences 1300.57
- 12.1 UE 25 B; 1.0 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; cor. secs. 4, 5, 32 and 33; 42 ft N., 112 ft W. and 5.4 ft lower than crossroads, (intersection of U. S. Hwy. 75 and State Hwy. 10); on S. side of concrete water drainage box, a chiseled square 1295.76
- 12.7 UE 25 C; 1.5 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; quarter cor. between secs. 4 and 33; center of Hwy. 10 opposite cross fences 1362.99

<u>Line 7 Cont'd.</u>	<u>LeMARS QUAD., 232</u>	<u>Feet</u>
13.2 UE 25 D; 2.0 mi E. of tablet along State Hwy. 10; Ts. 94 and 95 N., R. 45 W.; cor. secs. 3, 4, 33 and 34; 48 ft S., 21 ft W. and 0.7 ft lower than center of crossroads, on the W. end of a crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square		1374.43
13.9 Maurice Azimuth Mark; 48 ft N., 28 ft E. and 0.4 ft lower than center of hwy. at driveway N. to farmhouse, 1 ft E. of power pole, 1 ft S. of fence line, the mark projects 2 inches and the disk is stamped "Maurice 1949"		1420.228
14.1 Maurice Triangulation Station: located about 4.5 mi W. of Orange City and 3.5 mi NE. of Maurice, on the right-of-way of State Hwy. 10; 55 ft N., 214 ft W. and 2.7 ft lower than center of crossroads; 13 ft W. of power pole and 4 ft S. of fence, the mark is flush with the ground and the disk is stamped "Maurice 1949"		1426.901
14.7 UE 1398.4; 0.5 mi E. of Maurice Triangulation Station, center of Hwy. opposite cross fences, copper nail and washer		1398.28
15.3 "17 WHV 1957" (described in line 5)		1405.968

LINE 8

SOUTH ALONG SOUTH PORTION OF EAST BORDER, THENCE WEST (by W. H. Veatch, 1957; Book CV 864)

REMSEN QUAD., 231

0.0 "Remsen 1934" (described in line 6)		1330.089
0.8 UE 1358.4; 0.3 mi W. and 0.5 mi S. of tablet; along gravel rd., T. 92 N., Rs. 43 and 44 W.; cor. secs. 1, 6, 7 and 12; center of crossroads (at intersection with State Hwys. 3 and 5); top of a copper nail and washer		1358.36
1.3 UE 1409.0; 0.3 mi W. and 1.0 mi S. of tablet along gravel rd.; T. 92 N., Rs. 43 and 44 W.; quarter cor. between secs. 7 and 12; center of rd. opposite T-fence E.		1409.0
1.7 UE 1386.7; 0.3 mi W. and 1.5 mi S. of tablet along gravel rd.; T. 92 N., Rs. 43 and 44 W.; cor. secs. 7, 12, 13 and 18; 271 ft N., 11 ft W. and 12.3 ft lower than center of crossroads, (trail rd. E.); in center of S. headwall of concrete culvert; a chiseled square		1386.75
2.3 UE 1358.3; 0.8 mi W. and 1.5 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; quarter cor. between secs. 12 and 13; center of rd. opposite T-fence N.		1358.3

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2.8 Remsen, 1.5 mi S. and 1.5 mi W. from; T. 92 N., R. 44 W.; 445 ft S., 32 ft W. and 10.8 ft higher than center of rd. at T-rd. S. and T-fence N., at approx. cor. of secs. 11, 12, 13 and 14; 3 ft S. and 3 ft W. from power pole, 1 ft E. of fence line, in a concrete post; a standard tablet stamped "26 WHV 1957 1381 ft"		1380.591
2.8 Reference mark; 431 ft N. of tablet; 14 ft S., 30 ft W. from center of rd. at T-rd. S.; on the S. end of a 24-in. steel pipe culvert, a punched hole		1367.5
3.2 UE 26 A; 0.4 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; quarter cor. between secs. 13 and 14; center of rd. opposite cross fences		1412.26
3.7 UE 26 B; 0.9 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; cor. secs. 13, 14, 23 and 24; 23 ft N., 20 ft W. and 2.6 ft lower than center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole		1435.7

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Line 8 Cont'd.

LeMARS QUAD., 232

Feet

- 4.2 UE 26 C; 1.4 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; at quarter cor. between secs. 23 and 24; center of rd. at private T-rd. W. to farmhouse 1390.1
- 4.7 UE 26 D; 1.9 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; at cor. secs. 23, 24, 25 and 26; 16 ft N., 32 ft W. and 2.2 ft lower than center of crossroads, on the N. end of a 24-in. steel pipe culvert; a punched hole 1409.5
- 5.4 UE 26 E; 2.5 mi S. of tablet along gravel rd., T. 92 N., R. 44 W.; near quarter cor. between secs. 25 and 26; in center of wooden bridge over creek; a copper nail and washer (6.3 ft above bottom of drain) 1381.93

UNION CENTER QUAD., 209

- 5.8 Remsen, 4.5 mi S. and 1.5 mi W. of; T. 92 N., R. 44 W.; 347 ft S., 32 ft W. and 7.8 ft higher than center of crossroads, at approx. cor. secs. 25, 26, 35 and 36; 311 ft S. from corner of fences (S.-W.), 1 ft S. and 4 ft E. of power pole, 2 ft E. of fence line; in a concrete post, a standard tablet stamped "27 WHV 1957" (not found) 1433.812
- 5.8 Reference mark; 313 ft N. of tablet; 34 ft S. and 18 ft W. from center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole 1425.59
- 6.3 UE 27 A; 0.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 44 W.; at quarter cor. between secs. 26 and 35; center of rd. opposite cross fences 1426.9
- 6.8 UE 27 B; 1.0 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 44 W.; cor. secs. 26, 27, 34 and 35; 34 ft N., 32 ft E. and 1.7 ft lower than center of crossroads, a rail spike in S. side of corner fence post, projecting 6 inches above ground (reported destroyed) 1398.13
- 7.4 UE 27 C; 1.5 mi W. of tablet along Co. Hwy. "A"; T. 92 N., R. 44 W.; at quarter cor. between secs. 27 and 34; center of rd. opposite cross fences 1432.9
- 7.8 Reference mark 1; 50 ft N. of T-fence corner, 36 ft S. of center of gravel rd., 1.5 ft SW. of a fence corner and gate and 1 ft W. of a fence line; the mark projects about 2 inches and the disk is stamped "Remsen No. 1 1950" (reported destroyed) 1481.869
- 7.8 Remsen Triangulation Station is located about 4.5 mi S. and 3.0 mi W. of Remsen, 11.0 mi N. and 4.0 mi W. of Kingsley, on the right-of-way of a gravel rd., 83.5 ft NW. of round granary, 35 ft S., 415 ft E. and 3.3 ft higher than center of crossroads (this is the underground mark - - reported not found) 1480.525
- 8.0 Remsen Azimuth Mark; 32 ft N., center of gravel rd., 6 ft E. of power pole, 3.5 ft E. of white witness post and 1 ft S. of right-of-way fence, the mark projects 3 inches and the disk is stamped "Remsen 1900" 1468.542
- 8.8 UE 1404.7; 0.8 mi W. of Remsen Azimuth Mark along Co. Rd. "A"; T. 92 N., R. 44 W.; cor. secs. 28, 29, 32 and 33; 34 ft S., 14 ft E. and 2.5 ft lower than center of crossroads, in center of E. headwall of concrete culvert; a chiseled square 1404.76
- 9.3 UE 1393.0; 1.3 mi W. of Remsen Azimuth Mark along Co. Rd. "A"; T. 92 N., R. 44 W.; quarter cor. between secs. 29 and 32; center of rd. opposite cross fences 1393.0
- 9.9 LeMars, 3.0 mi S. and 4.0 mi E. from; 5.0 mi S. and 1.0 mi W. from Cyens, T. 92 N., R. 44 W.; 33 ft N., 159 ft W. and 1.2 ft higher than center of crossroads, at approx. cor. secs. 29, 30, 31 and 32; 2 ft S. of power pole, in concrete post; a standard tablet stamped "28 WHV 1957" 1352.361
- 9.9 Reference mark; 308 ft SE. of tablet; 19 ft S., 146 ft E. from center of crossroads, in center of S. headwall of concrete culvert; a chiseled square 1348.14

<u>Line 8 Cont'd.</u>	<u>UNION CENTER QUAD., 209</u>	<u>Feet</u>
10.4 UE 28 A; 0.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 44 W.; quarter cor. between secs. 30 and 31; center of asphalt rd. opposite cross fences; a copper nail and washer		1404.3
10.9 UE 28 B; 1.0 mi W. of tablet along Co. Rd. "A"; T. 92 N., Rs. 44 and 45 W.; at approx. cor. secs. 25, 30, 31 and 36; 28 ft N., 17 ft W. and 1.2 ft lower than the center of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square		1353.42
11.4 UE 28 C; 1.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; at quarter cor. between secs. 25 and 36; center of asphalt rd. opposite cross fences; a copper nail and washer		1343.7
11.8 LeMars, 3.0 mi S. and 2.0 mi E. from; 2.0 mi E. along Co. rd. "A" from intersection of Co. Rd. "P"; T. 92 N., R. 45 W.; 33 ft N., 206 ft E. and 3 ft lower than center of crossroads, at approximate cor. secs. 25, 26, 35 and 36; 173 ft E. from fence corner at fences N.-E.; 1 ft S. of fence line; 2 ft W. of telephone pole; in a concrete post; a standard tablet stamped "29 WHV 1957 1277 ft"		1276.979
11.8 Reference mark; 185 ft W. of tablet; 28 ft N. and 21 ft E. from center of crossroads, on the E. end of a 24-in. steel pipe culvert; a punched hole		1277.27
12.4 UE 29 A; 0.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; at quarter cor. between secs. 26 and 35; center of asphalt rd. at cross fences; a copper nail and washer		1273.99
12.9 UE 29 B; 1.0 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; at cor. secs. 26, 27, 34 and 35; 26 ft N., 21 ft W. and 1.2 ft lower than center of crossroads, on the W. end of a 24-in. concrete pipe culvert; a chiseled square		1297.59
13.4 UE 29 C; 1.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; at quarter cor. between secs. 27 and 34; center of rd. opposite cross fences		1330.1
13.8 UE 29 D; 2.0 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; cor. secs. 27, 28, 33 and 34; 18 ft N., 154 ft E. and 1.7 ft lower than center of crossroads (intersection of Co. Rds. "A" and "P"), in center of N. headwall of concrete box culvert; a chiseled square		1256.15
14.4 UE 29 E; 2.6 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; near quarter cor. between secs. 28 and 33; center of rd. opposite T-fence S.		1244.5
14.9 LeMars, 2.0 mi S. and 1.0 mi W. from; 1.7 mi E. from intersection of Co. Rd. "A" with U. S. Hwy. 75; T. 92 N., R. 45 W.; 33 ft N., 355 ft W. and 7.8 ft higher than center of crossroads, at approx. cor. secs. 28, 29, 32 and 33; about 485 ft NE. from the NE. corner of a large two story farmhouse, 3 ft E. of power pole, 1 ft S. of fence line; in a concrete post, a standard tablet stamped "30 WHV 1957 1315"		1315.335
14.8 Reference mark; 355 ft E. of tablet; 32 ft N., 32 ft W. from center of crossroads; a rail spike in S. side of a 15-in. power pole, projecting 6 inches above ground		1307.76
15.6 UE 30 A; 0.7 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; about 0.2 mi W. from quarter cor. between secs. 29 and 32; center of rd. opposite T-fence S.		1270.0
15.9 UE 30 B; 1.0 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 45 W.; cor. secs. 29, 30, 31 and 32; 25 ft N., 31 ft E. and 1.1 ft higher than center of crossroads, in the S. side of a power pole; a rail spike		1232.82
16.6 UE 30 C; 1.7 mi W. of tablet along Co. Rd. "A"; 100 ft E. from intersection of U. S. Hwy. 75; top of W. rail at center of E.-W. section line rd. crossing the Sec Line RR.		1191.0

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LeMars Quadrangle
232 - IowaLine 8 Cont'd.UNION CENTER QUAD., 209Feet

- 16.9 LeMars, 3.7 mi S. along U. S. Hwy. 75 from intersection with State Hwys. 3 and 5; thence 0.2 mi W. along Co. Rd. "A"; 500 ft NW. from two story farmhouse; T. 92 N., R. 45 and 46 W.; 29 ft S., 453 ft W. and 16.8 ft higher than center of rd. at T-rd. N.; at approx. cor. secs. 25, 30, 31 and 36; 2 ft N., 2 ft W. of power pole and 2 ft N. of fence line; in a concrete post; a standard tablet stamped "31 WHV 1957" 1228.224
- 16.9 Reference mark; 435 ft NE. of tablet; 27 ft N., 18 ft W. from center of rd. at T-rd. S.; on the W. end of a 24-in. steel pipe culvert; a punched hole 1212.25
- 17.3 UE 31 A; 0.5 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 46 W.; near quarter cor. between secs. 25 and 36; center of rd. at T-rd. N. to farmhouse 1273.6
- 17.8 UE 31 B; 0.9 mi W. of tablet along Co. Rd. "A"; T. 92 N., R. 46 W.; at cor. secs. 25, 26, 35 and 36; 54 ft S., 30 ft W. and 5.7 ft lower than center of crossroads; a rail spike in N. side of power pole, projecting 6 inches above ground 1229.53
- 18.4 UE 31 C; 1.5 mi W. of tablet along Co. Rd. "A"; top of E. rail at center of E.-W. sec. line rd. crossing the Great Northern RR. 1187.8

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

- 18.8 Reference mark; 202 ft W. of tablet, 29 ft N., 17 ft W. from center of crossroads, on the W. end of a 24-in. steel pipe culvert; a punched hole 1204.22
- 18.8 LeMars, 3.7 mi S. along U. S. Hwy. 75 from the intersection with State Hwys. 3 and 5, thence 2.2 mi W. along Co. Rd. "A"; T. 92 N., R. 46 W.; 34 ft N., 185 ft E. and 4.9 ft lower than center of rd. at T-rd. S.; at approx. cor. secs. 26, 27, 34 and 35; about 0.1 mi W. from center of sec. line rd. crossing the C.&N.W. RR., 2 ft W. from telephone pole, 1 ft S. of fence line; in a concrete post, a standard tablet stamped "32 WHV 1957 1203 ft" (reported destroyed 11/60 IGT) 1203.285