

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final Adjustment of 1972

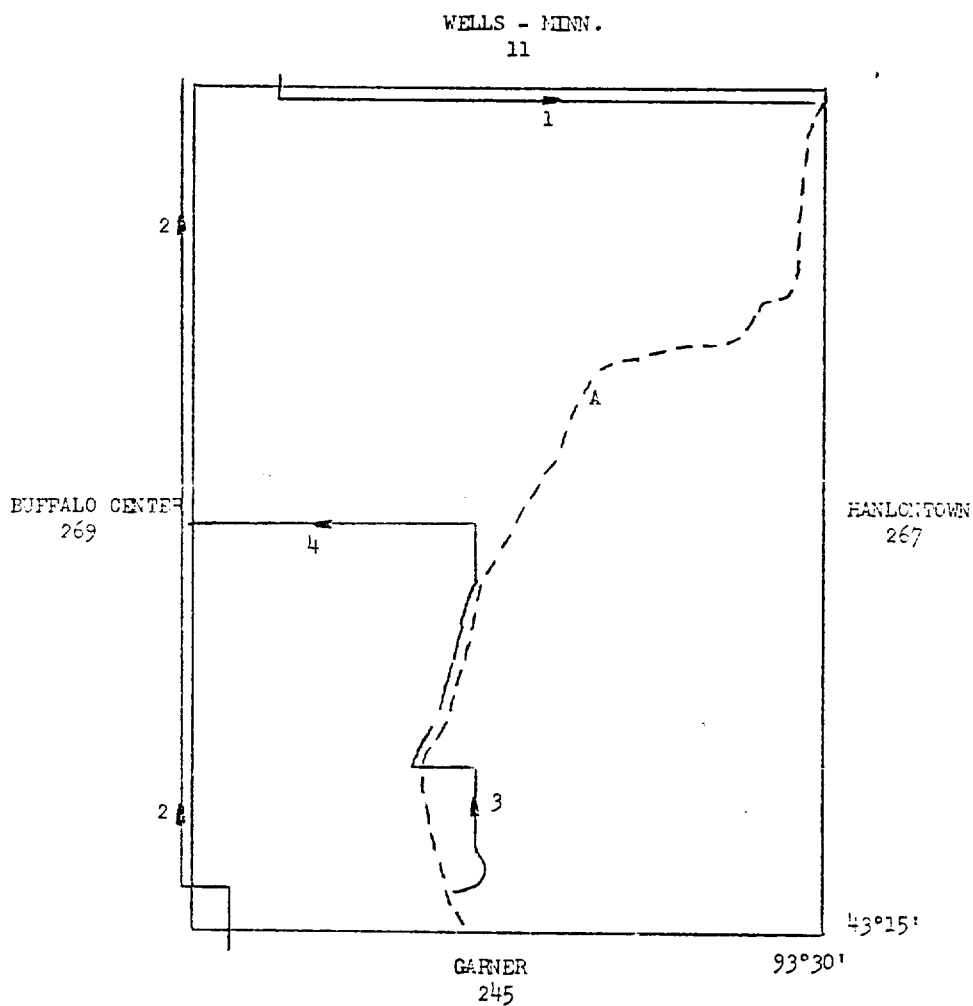
Winebago, Worth and Hancock Counties

Edition of: 1-10-73

PR: AKH/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAKE MILLS QUADRANGLE
268 - IOWA
N4315-W9330/15
DIAGRAM NK 15-2
MASON CITY



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

Quadrangle 490933

268-A

2
LAKE MILLS QUADRANGLE
268 - IOWA

LINE 1

FEET

R.D. Searcy, 1953; Book CV-566

WELLS QUAD. 11 MINN.

- 17.6 Kiester, 2.5 mi S. and 2.0 mi W. from, near S. cor. secs. 31 and 32, T. 101 N., R. 24 W.,
375 ft N. and 40 ft W. from T-rd. N., 10 ft S. and 4 ft E. from REA pole, 2 ft E. of fence,
in concrete post; standard tablet stamped "TT 8 WM 1953" 1247.943
- 17.7 Reference mark, 240 ft S. of tablet, on concrete base of iron pipe corner post of E. right-of-
way fence; chiseled square 1246.20

LAKE MILLS QUAD. 268 IA.

- 19.8 Kiester, 2.5 mi S. of, SW. cor. sec. 34, T. 101 N., R. 24 W., 49 ft N. and 500 ft E. from
crossroads in triangle formed by junction of State Hwy. 22 with Minnesota-Iowa State line
rd., 2 ft S. and 5 ft W. from REA pole, in concrete post; standard tablet stamped "TT 9 WM
1953" 1245.332
- 19.8 Reference mark, 270 ft W. of tablet, on center of N. headwall; chiseled square 1245.76
- 22.1 Kiester, 2.5 mi S. and 2.5 mi E. from, 8 mi W. of Emmons, 33 ft S. and 415 ft E. from center
of Minnesota-Iowa State line rd. at crossing of Chicago and North Western RR., 2 ft N. of fence
in concrete post; standard tablet stamped "TT 10 WM 1953" 1263.894
- 3 Reference mark, 430 ft E. of tablet, on S. end of round concrete culvert; chiseled square 1253.97
- 4.3 UE 1288.1, 2.1 mi E. of tablet, 0.2 mi W. of USCGS triangulation station SLETTEN 1926, cen-
ter of rd. at T-rd. N. 1258.0
- 26.9 Emmons, 4.0 mi W. of, along Minnesota-Iowa State line, near S. cor. secs. 34 and 35, T. 101 N.,
R. 23 W., 33 ft N. and 201 ft W. from center of rd. at private drive S., 33 ft N. and 225 ft
E. from center of rd. at fence line N., 15 ft E. of telephone pole, in concrete post; stand-
ard tablet stamped "13 RDS 1953" 1241.010
- 27.4 Reference mark, 0.5 mi E. of tablet, on top of S. end of NW. concrete wing wall of bridge
over Winnebago River, 8 ft above water level and 0.4 ft lower than center of bridge; chisel-
ed square 1239.31
- 29.0 Emmons, 2.0 mi W. of, along Minnesota-Iowa State line, near S. cor. secs. 31 and 36, T. 101
N., Rs. 22 and 23 W., 0.2 mi E. of church and cemetery, 48 ft N. and 320 ft E. from center
of rd. at private drive N., 10 ft W. of telephone pole, 3 ft S. of fence line, in concrete
post; standard tablet stamped "14 RDS 1953" (Not found probably destroyed 10-72, JLK) 1268.493
- 29.0 Reference mark, 450 ft E. of tablet, on top of N. end of round concrete culvert; chiseled
square 1259.96

LINE 2

G. Sandul, 1972; Book CV-2550

GARNER QUAD. - 245

- 2 9 6.2 UE 1225 A, 1.25 mi N. of BM along gravel road, near cor. secs. 1, 6, 7 and 12, T. 97
N., Rs. 24 and 25 W., 158 ft N. and 23 ft W. of centerline of crossroads, on W. end
of centerline of crossroads, on W. end of concrete pipe culvert, a chiseled square;
painted "UE" (Elev. by USGS) 1219.58

<u>LINE 2 (Cont'd)</u>		<u>GARNER QUAD. - 245</u>	<u>FEET</u>
2	10	6.9 UE 1225 B, 1.95 mi N. of BM along gravel rd., near N. sixteenth cor. between secs. 1 and 6, T. 97 N., Rs. 24 and 25 W., 70 ft N. and 22 ft E. of centerline of rd. at fence W., on E. end of concrete culvert, a chiseled square, painted "UE"	1235.56
<u>LAKE MILLS QUAD. - 268</u>			
11	7.7	Crystal Lake, 2.9 mi N. and 3.0 mi E. of, near quarter cor. between secs. 31 and 36, T. 98 N., Rs. 24 and 25 W., 75 ft N. and 51 ft W. of centerline of crossroads, 41.5 ft N. of fence corner, 0.7 ft E. of fence, 0.5 ft E. of white witness sign, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "17 SAN 1972"	1234.708
12	7.7	Reference mark, 110 ft SW. of BM, 20 ft S. and 106 ft W. of centerline of crossroads, on S. end of concrete culvert, a chiseled square; painted "RT"	1233.29
<u>BUFFALO CENTER QUAD. - 269</u>			
14	8.7	UE 17 A, 1.0 mi W. of BM along gravel rd., near quarter cor. between secs. 35 and 36, T. 98 N., R. 25 W., 59 ft E. along rd. from centerline of rd. at curve at private rd. SW. to Forest Park Snowmobile Area, 20 ft normal and on N. side of rd., on N. end of corrugated steel culvert, top of stove bolt, painted "UE"	1316.40
16	9.6	UE 17 B, 1.0 mi W. and 0.9 mi N. of BM along gravel rd., about 450 ft S. of quarter cor. between secs. 25 and 26, T. 98 N., R. 25 W., 20 ft normal and on W. side of centerline of rd., on W. end of corrugated steel culvert, top of stove bolt; painted "UE"	1273.85
17	10.4	Reference mark, about 275 ft SW. of BM, 243 ft normal and on W. side of centerline of rd., 58.4 ft SW. of SW. corner of small white house, on top near center of 7 ft by 7 ft concrete well cover directly under windmill a chiseled square	1294.66
18	10.5	Crystal Lake, 4.5 mi N. and 2.0 mi E. of, 5.75 mi S. and 1.0 mi E. of Thompson, near S. sixteenth cor. between secs. 23 and 24, T. 98 N., R. 25 W., 182 ft NE. of NE. corner of a small white house, 170 ft N. along rd. from rd. at drive W., to house, at NE. corner of shelter grove, 59 ft normal and on W. side of centerline of rd., 7.4 ft W. of E. end of fence, 1.0 ft S. of fence, 1.0 ft SE. of white witness sign, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "18 SAN 1972".	1288.205
19	11.2	UE 18 A, 0.7 mi N. of BM along gravel rd., near cor. secs. 13, 14, 23 and 24, T. 98 N., R. 25 W., 30 ft S. and 60 ft W. of centerline of crossroads, 4.5 ft above drain, on S. end of corrugated steel culvert; top of stove bolt, painted "UE"	1261.72
20	12.2	UE 18 B, 1.7 mi N. of BM along gravel rd., near cor. secs. 11, 12, 13 and 14, T. 98 N., R. 25 W., 25 ft S. and 27 ft W. of centerline of crossroads, on S. end flanged concrete pipe culvert, a chiseled square, painted "UE"	1294.08
21	13.2	UE 18 C, 2.7 mi N. of BM along gravel rd., near cor. secs. 1, 2, 11 and 12, T. 98 N., R. 25 W., 17 ft S. and 49 ft W. of centerline of crossroads, on S. end of corrugated steel culvert, top of stove bolt, painted "UE"	1281.47
22	13.6	Thompson, 2.6 mi S. and 1.0 mi E. of, about 395 ft N. of S. sixteenth cor. between secs. 1 and 2, T. 98 N., R. 25 W., 83 ft ESE. of SE. corner of house, 95 ft S. along rd. from rd. at drive W., to house, 65 ft normal and on W. side of rd., 27.9 ft W. of T-fence W., 0.6 ft N. of fence, 0.7 ft NE. of white witness sign, set on the top, of 10 ft copper coated steel rod, a standard tablet stamped "19 SAN 1972".	1273.654
23	13.7	Reference mark, about 710 ft N. of BM, 260 ft S. of rd. at E.-W. fence, 20 ft normal and on W. side of centerline of rd., on W. end of corrugated steel culvert, top of stove bolt, painted "UE"	1262.92

LINE 2 (Cont'd)

BUFFALO CENTER QUAD. - 269

FEET

- | | | | | |
|----|------|------|---|----------|
| 2 | 24 | 14.4 | UE 19 A, 0.9 mi N. of BM along gravel rd., near S. sixteenth cor. between secs. 35 and 36, T. 99 N., R. 25 W., about 950 ft N. of crossroads, 24 ft normal and on E. side of centerline of rd., on E. end of concrete pipe culvert, a chiseled square; painted "UE" | 1256.96 |
| 25 | 15.3 | | UE 19 B, 1.7 mi N. of BM along gravel rd., near cor. secs. 25, 26, 35 and 36, T. 99 N., R. 25 W., 55 ft N. and 78 ft W. of centerline of crossroads, on top of E. edge of (E. most of two) concrete base of corn crib, a chiseled square; painted "UE" | 1257.87 |
| 26 | 16.3 | | Reference mark, 450 ft E. of BM, 80 ft S. and 34 ft E. of centerline of crossroads, top RR. rail (center of W. most part) driven in ground and painted orange serving as right-of-way marker, painted "RM" | 1255.38 |
| 27 | 16.3 | | Thompson, 1.0 mi E. of, near cor. secs. 23, 24, 25 and 26, T. 99 N., R. 25 W., on State Hwy. 9 right-of-way, 80 ft S. and 416 ft W. of centerline of crossroads at section cor., 1.5 ft N. of T-fence S., 1.0 ft NE. of white witness sign, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "20 SAN 1972" | 1249.763 |
| 28 | 17.4 | | UE 20 A, 1.0 mi N. of EM along gravel rd., near cor. secs. 13, 14, 23 and 24, T. 99 N., R. 25 W., 103 ft S. and 23 ft W. of centerline of crossroads, on W. end of concrete pipe culvert, a chiseled square; painted "UE" | 1249.97 |
| 29 | 18.4 | | UE 20 B, 2.0 mi N. of BM along gravel rd. near cor. secs. 11, 12, 13 and 14, T. 99 N., R. 25 W., 32 ft S. and 31 ft W. of centerline of crossroads, in base on NE. side of corner fence post, a RR. spike; painted "UE" | 1272.48 |
| 30 | 19.4 | | Thompson, 3.0 mi N. and 1.0 mi E. of, near cor. secs. 1, 2, 11 and 12, T. 99 N., R. 25 W., 50 ft S. and 99 ft E. of centerline of crossroads, 64.0 ft E. of fence corner, 0.7 ft N. of fence, 1.1 ft E. of white witness sign, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "21 SAN 1972" | 1237.981 |
| 31 | 19.5 | | Reference mark, 165 ft NE. of BM and across road, 21 ft N. and 247 ft E. of centerline of crossroads on N. end of concrete pipe culvert, a chiseled square; painted "RM" | 1240.38 |
| 32 | 20.5 | | UE 21 A, 1.0 mi N. of BM along gravel rd., near cor. secs. 1, 2, 35 and 36, Tps. 99 and 100 N., R. 25 W., 35 ft S. and 34 ft W. of centerline of crossroads, in base on NE. side of power pole, a RR. spike; painted "UE" | 1249.68 |
| 34 | 21.5 | | UE 21 B, 2.0 mi N. of BM along gravel rd., near cor. secs. 25, 26, 35 and 36, T. 100 N., R. 25 W., 28 ft N. and 24 ft W. of centerline of crossroads, on W. end of corrugated steel culvert, top of stove bolt, painted "UE" | 1225.77 |
| 35 | 22.4 | | Thompson, 5.9 mi N. and 1.0 mi E. of, about 750 ft S. of crossroads at corner secs. 23, 24, 25 and 26, T. 100 N., R. 25 W., near the top of first hill S. of crossroads, 74 ft N. of the center of a gate, 37 ft normal and on W. side of centerline of rd., 3.4 ft N. of a power pole, 0.7 ft W. of fence, 0.9 ft E. of white witness sign, set on the top of 10 ft copper coated steel rod, a standard tablet stamped "22 SAN 1972" | 1253.172 |
| 36 | 22.5 | | Reference mark, about 770 ft N. of BM, 19 ft N. and 40 ft W. of centerline of crossroads, on N. end of corrugated steel culvert, top of stove bolt, painted "RM" | 1233.55 |
| 37 | 23.6 | | UE 22 A, 1.15 mi N. of BM along gravel rd., near cor. secs. 13, 14, 23 and 24, T. 100 N., R. 25 W., 66 ft N. and 29 ft E. of centerline of crossroads, (E.-W. Co. Hwy. A 16) on S. end of corrugated steel culvert, under field entrance, Top of stove bolt painted "UE" | 1268.51 |
| 38 | 24.6 | | UE 22 B, 2.15 mi N. of BM along gravel rd., near cor. secs. 11, 12, 13 and 14, T. 100 N., R. 25 W., 15 ft N. and 42 ft W. of centerline of crossroads, on N. end of concrete pipe culvert, a chiseled square; painted "UE" | 1243.24 |

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LAKE MILLS QUADRANGLE
268 - IOWA

LINE 2 (Cont'd)

WELLS QUAD. - 11 MINN.

FEET

- 2 39 25.7 Kiester, about 2.5 mi S. and 2.0 mi W. of; near S. cor. secs. 31 and 32, T. 101 N., R. 24 W., 374 ft N. and 39 ft W. of centerline of T-rd. N., 1.6 ft E. of right-of-way fence, 0.6 ft E. of white witness sign, in concrete post; standard tablet stamped "TT 8 WM 1953" 1247.943

LINE 3

G. Sandul, 1972; Book CV-2850

LAKE MILLS QUAD. - 268

- 2 40 0.0 At Forest City, at the intersection of W. I Street and South Clark Street, at the cannon in the SE. corner of courthouse square, in the top of the concrete base, 83 ft N. of the centerline of West I Street, 48 ft W. of the centerline of South Clark Street, and 6-in. W. of the SE. corner of the base, a standard USC&GS disk, stamped "FOREST CITY 1934" 1280.440
- 41 1.3 UE W 34 A, 1.0 mi N. of BM along U.S. Hwy. 69, near quarter cor. secs. 25 and 26, T. 98 N., R. 24 W., 37 ft S. and 24 ft W. of centerline of hwy. at T-rd. W., on concrete cover for man-hole and near center of $N\frac{1}{2}$, a chiseled square; painted "U" 1262.66
- 42 2.5 Forest City, 2.2 mi N. of along U.S. Hwy. 69, about 740 ft N. of hwy. at fence E. at quarter cor. between secs. 23 and 24, T. 98 N., R. 24 W., 26.6 ft normal and on W. side of centerline hwy., set in the top in center of W. concrete headwall of box culvert, a standard tablet stamped "15 SAN 1972"; painted "BM" 1248.546
- 43 2.5 Reference mark, 53 ft E. of BM and across hwy., 26.3 ft normal and on E. side of centerline hwy., set in the top in center of E. concrete headwall of box culvert, a brass bolt stamped "BM"; painted "RM" 1249.03
- 44 3.7 UE 16 A, 0.35 mi N. of BM along U.S. Hwy. 69, thence 0.8 mi W. along gravel rd., near W. sixteenth cor. between secs. 14 and 23, T. 98 N., R. 24 W., 15 ft normal and on S. side of centerline of rd., 8.7 ft above water level, on S. corner of SW. wingwall of bridge, a chiseled square; painted "UE" 1211.95
- 45 4.6 Leland, 2.15 mi SW. of along the Minneapolis, and St. Louis RR., in the NW $\frac{1}{4}$ of sec. 14, T. 98 N., R. 24 W., about 0.2 mi SW. of milepost 149, 14.9 ft NW. of the NW. rail, 58.5 ft NE. of the center of a gate in right-of-way fence, about 200 ft SW. of SW. end of long curve in RR., 71.0 ft NNE. of a pole, 1.4 ft SE. of right-of-way fence, and 0.5 ft SE. of white witness sign, set in the top of concrete post, a standard disk stamped "U 34 1934" 1213.177

LINE 4

G. Sandul, 1972; Book CV-2850

LAKE MILLS QUAD. - 268

- 2 47 0.0 "U 34 1934" (Described in Line 3) 1213.177
- 48 1.5 UE U 34 A, 1.5 mi NE. of BM along RR., near E. sixteenth cor. secs. 2 and 11, T. 98 N., R. 24 W., at point where gravel rd. curves from E.-W. to NE.-SW. and parallels RR. and at rd. crossing leading to gravel pit, 15 ft SW. along RR. from centerline of crossing, 24.2 ft NW. of the NW. rail, on SW. end corrugated steel culvert, top of stove bolt, painted "UE" 1215.39
- 49 2.1 At Leland, near SE. corner of NE. quarter sec. 2, T. 98 N., R. 24 W., on the Minneapolis and St. Louis, RR. at the only rd. (grade) crossing in Leland, about 175 ft WSW. of the post office (1972), 27.2 ft E. of the E. rail of the main track, 37 ft normal and on S. side of centerline of rd., 11.7 ft W. of power pole, 0.5 ft N. of white witness sign, set in the top of concrete post flush with ground "T 34 1934" (Disturbed) Elev. by USGS 1220.420

LINE 4 (Cont'd)

LAKE MILLS QUAD. - 268

FEET

2	50	3.0	Leland, 0.5 mi NE. along the Minneapolis and St. Louis RR. from, near quarter cor. secs. 35 and 36, T. 99 N., R. 24 W., 288 ft N. along U.S. Hwy. 69, from centerline of grade crossing, 55 ft normal and on E. side of centerline of hwy., 30.3 ft NW. of NW. rail, 4.6 ft SE. of telegraph pole, 0.4 ft W. of white witness sign, set in the top of concrete post projecting 10-in. a standard disk stamped "S 34 1934" (Reported disturbed Elev. by USGS.)	1218.376
	51	3.7	UE S 34 A, 0.7 mi N. of BM along U.S. Hwy. 69, about 300 ft N. of crossroads at cor. secs. 25, 26, 35 and 36, T. 99 N., R. 24 W., 28 ft normal and on E. side of centerline of hwy., on the top in center of E. concrete headwall of box culvert, a chiseled square; painted "UE"	1263.44
	52	4.3	Leland, about 2.1 mi N. of along U.S. Hwy. 69, near N. sixteenth cor. between secs. 25 and 26, T. 99 N., R. 24 W., at a small lake on W. side of hwy., about 1600 ft S. of junction of U.S. Hwy. 69 and State Hwy. 9 West, 60 ft normal and on E. side of centerline of hwy., 6.0 ft above water level, set in the top of N. end (0.4 ft S. of N. end) of E. headwall of 9 ft concrete box culvert, a standard tablet stamped "LAKE 1972"	1243.494
	53	4.4	Reference mark, about 355 ft N. of BM, 45 ft S. and 76 ft E. of centerline of hwy. at field rd. E., on S. end flanged corrugated steel culvert, top of stove bolt, painted "RM"	1241.51
	54	5.5	UE Lake A, 0.25 mi N. of BM along U.S. Hwy. 69, thence 0.85 mi W. along State Hwy. 9 about 790 ft E. of cor. secs. 22, 23, 26 and 27, T. 99 N., R. 24 W., 21 ft normal and on N. side of centerline of hwy., on top of center of N. concrete headwall of box culvert, a chiseled square; painted "UE"	1264.66
	55	6.6	UE Lake B, 0.25 mi N. of BM along U.S. Hwy. 69, thence 1.95 mi W. along State Hwy. 9, near cor. secs. 21, 22, 27 and 28, T. 99 N., R. 24 W., 27 ft N. and 340 ft E. of centerline of crossroads, on top in center of N. concrete headwall of box culvert, a chiseled square painted "UE"	1258.09
	56	7.6	Forest City, 7.5 mi N. and 3.0 mi W. of, 4.0 mi E. of Thompson, 457 ft E. along State Hwy. 9 from centerline of crossroads, at cor. secs. 20, 21, 28 and 29, T. 99 N., R. 24 W., 25 ft normal and on S. side of centerline of hwy., set in the top in center of S. headwall of concrete box culvert, a standard tablet stamped "23 SAN 1972"; painted "BM"	1246.606
	57	7.7	Reference mark, about 880 ft W. of BM, 423 ft W. along hwy. from centerline of crossroads, 15 ft normal and on S. side of centerline of hwy., on the top of concrete curb at W. side of drainage gutter, a chiseled square; painted "RM"	1249.83
	58	8.6	UE 23 A, 1.05 mi W. of BM along State Hwy. 9, near cor. secs. 19, 20, 29 and 30, T. 99 N., R. 24 W., 22 ft N. and 254 ft E. of centerline of crossroads, on the top in center of N. headwall of concrete box culvert, a chiseled square; painted "UE"	1249.49
	59	9.4	UE 23 B, 1.9 mi W. of BM along State Hwy. 9, near W. sixteenth cor. between secs. 19 and 30, T. 99 N., R. 24 W., about 700 ft E. of centerline of crossroads, 24 ft normal and on N. side of centerline of hwy., set in the top in center of N. concrete headwall of box culvert, a brass bolt stamped "BM"; painted "UE"	1257.79
	61	10.6	Reference mark (Described in Line 2)	1255.38