

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

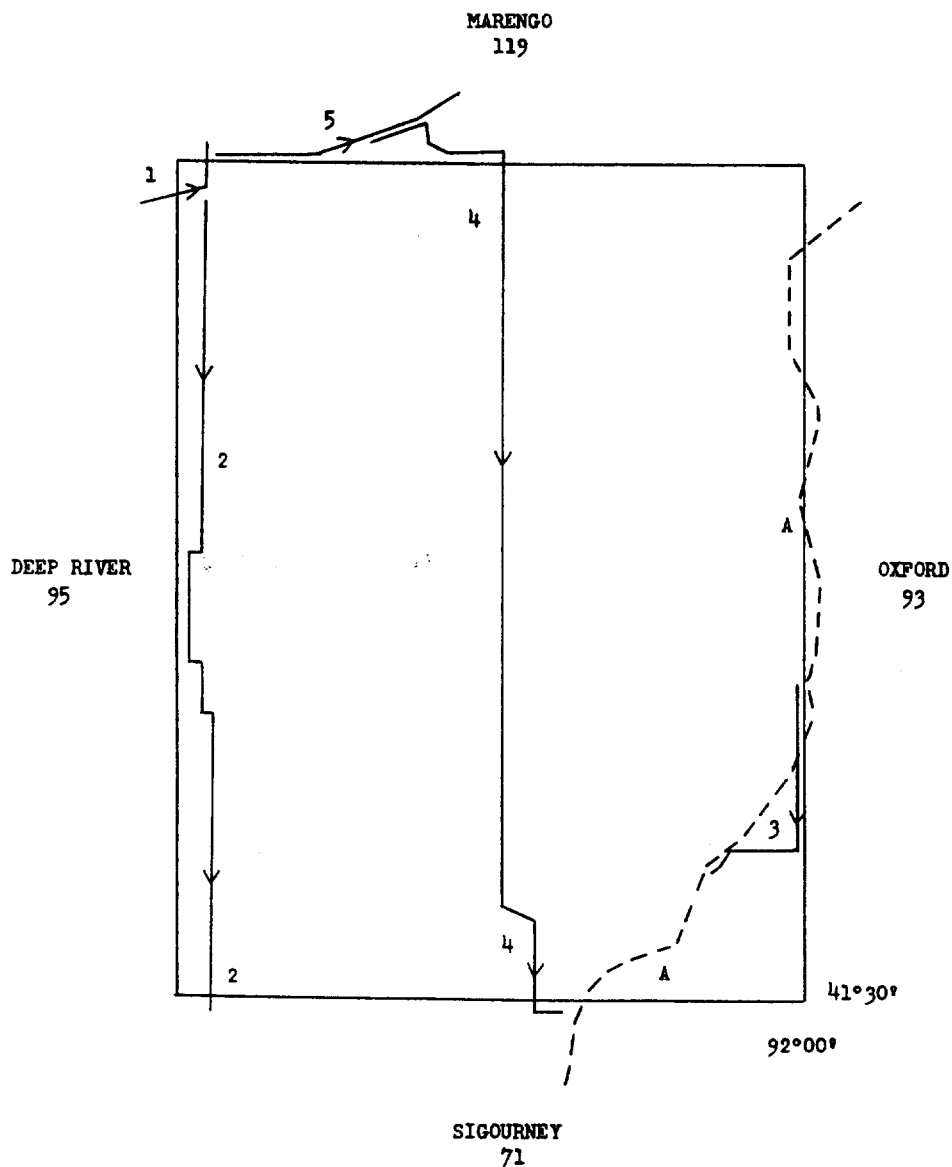
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NORTH ENGLISH QUADRANGLE
94 - Iowa
N4130-W9200/15
Diagram NK 15-8
Des Moines, Iowa

Iowa and Keokuk Counties

Edition of 11/29/66

PR: ADP/ct



USC&GS LEVELING

A. No. 410921

94 D

Feet

LINE 1EAST AND NORTH IN NORTHWEST CORNER OF QUAD. (LEVELING PERFORMED BY SECOND-ORDER METHODS)
(By D. W. Bennett, 1966, Book CV-2062)DEEP RIVER QUAD. 95

- 2 47 24.4 Victor, 0.75 mi N. of, 1.2 mi E. of, (the intersection of Iowa Hwy. 419 and Rook Island RR. at), at the junction of U.S. 6 and Iowa Hwy. 21 N., T. 80 N., R. 12 W., in the NW $\frac{1}{4}$ sec. 17, 35 ft S. and 153 ft E. of Hwy. junction, 42 ft NW. of a pole, 9 ft above the drain and 1.5 ft lower than junction; standard tablet set in E. end of concrete box culvert headwall; stamped "18 DWB 1966 794" Painted "BM" 794.629
- 48 24.5 Reference mark, 60 ft N. of mark, on opposite headwall of culvert; chiseled square on W. end, painted "RM" 795.12
- 49 25.5 UE 18 A DWB, T. 80 N., R. 12 W., near N. sixteenth cor. secs. 16 and 17, at a 4 x 4 concrete box culvert under U.S. 6, 1.0 mi E. of junction 6 and 21, 33 ft N. of center of "6", iron pin at center of N. headwall, painted "UE 824.5" 824.73

NORTH ENGLISH QUAD. 94

- 50 26.3 UE 18 B DWB, T. 80 N., R. 12 W., near N. sixteenth cor. secs. 15 and 16, 24 ft N. of and 64 ft W. of junction U.S. "6" and N.-S. gravel rd., iron pin on N. headwall of 9 x 20 concrete box culvert, painted "UE 788.5" (9.0 ft above drain and 1 ft lower than crossroads) 788.67

MARENGO QUAD. 119

- 51 26.9 Ladora, 0.3 mi S. and 3.0 mi W. of, T. 80 N., R. 12 W., 0.2 mi N. of cor. secs. 9, 10, 15 and 16, 19 ft N., 33 ft W. of T-rd. E., 5 ft S. of power pole, in top of a concrete post; a standard tablet stamped "11 GHC 1964 896" Painted "BM 895.6" 895.475

LINE 2

SOUTH ALONG WEST BORDER (By D. W. Bennett, 1966, Book CV-2062)

NORTH ENGLISH QUAD. 94

- 1 26 0.0 UE 18 B DWB (Described in Line 1) 788.67
- 27 0.4 UE 18 X DWB, T. 80 N., R. 12 W., near S. sixteenth cor. secs. 15 and 16, at steel truss bridge on old Hwy. 6, on SW. abutment, 11 ft W. of centerline and 22 ft above water, chiseled square (not crossmark) painted "UE 788.6" 788.79
- 28 1.2 UE 18 Y DWB, T. 80 N., R. 12 W., at quarter cor. secs. 21 and 22, 43 ft N. and 39 ft W. of crossroads, rail spike in power pole, 5 ft lower than crossroads, painted "UE 891.8" 891.95
- 30 2.0 UE 18 Z DWB, T. 80 N., R. 12 W., near quarter cor. secs. 27 and 28, at a wood bridge over Little Bear Creek, on top of SE. wood piling, 13 ft E. of and 6 in. higher than center of bridge; water -10.6; a copper nail and washer in center of piling, painted "UE 834.3" 834.47
- 31 2.7 UE 18 ZZ DWB, T. 80 N., R. 12 W., at cor. secs. 27, 28, 33 and 34; about 0.5 mi N. of Interstate 80, 27 ft S. and 50 ft W. of crossroads, 2.5 ft lower than crossroads; top of bolt on 12 in. culvert pipe, painted "UE 899.9" 900.07

LINE 2 (Cont'd)

NORTH ENGLISH QUAD. 94

Feet

1 32 3.2	Victor, 2.0 mi S. and 3.0 mi E. of junction Iowa State 419 and R. I. RR. at, 2.0 mi E. of Victor exit along U. S. Interstate 80, T. 80 N., R. 12 W., at quarter cor. of secs. 33 and 34, at a 200 ft concrete overpass over Interstate 80, on SW. bridge abutment level with bridge floor, 15 ft W. of center of bridge, 0.5 ft W. of bridge rail, standard tablet set in concrete abutment, "19 DWB 1966 973", painted "BM 936.60"	936.750
33 3.2	Reference mark, 200 ft S. of mark on opposite side of bridge, 15 ft E. of center of bridge; iron pin marked (IHC-BM), painted "RM 936.6"	936.75
34 3.7	UE 19 A DWB, T. 80 N., T. 79 N., R. 12 W., at cor. secs. 3, 4, 33 and 34, 125 ft S. and 30 ft W. of, and 6 ft lower than crossroads; a punched hole in 12 in. corrugated metal pipe culvert at drive W. (N. end) painted "UE 882.1"	882.25
36 4.7	UE 19 B DWB, T. 79 N., R. 12 W., at cor. secs. 3, 4, 9 and 10, 34 ft N. and 48 ft E. of crossroads; ohiseled square, 6 in. W. of iron pipe rail post, 3 ft lower than crossroads, painted "UE 849.0"	849.11
37 5.7	UE 19 C DWB, T. 79 N., R. 12 W., at cor. secs. 9, 10, 15 and 16, 45 ft N. and 45 ft E. of T-rd. E., a rail spike in power pole W. side about 0.5 ft lower than T-rd., painted "UE 921.4"	921.53
38 6.2	Victor, 5.5 mi S. of, 3.0 mi E. of, (the junction of Iowa Hwy. 419 and R. I. RR. at), 3.0 mi S. of the crossing of Interstate 80, T. 79 N., R. 12 W., at quarter cor. secs. 15 and 16, 118 ft NW. of the M. Verne Timm farmhouse, 103 ft N. and 32 ft W. of drive E., level with drive E., 8 ft NW. of a power pole, 2 ft E. of a fence, a standard tablet set in top of concrete post, stamped "20 DWB 1966 919" Painted "BM 918.7"	918.763
39 6.2	Reference mark, 200 ft SE. of mark, on opposite side of rd., at field entrance E., 9 ft N. of and 22 ft E. of center of rd., punched hole 12 in. corrugated metal pipe culvert; painted "915.4"	915.47
40 6.7	UE 20 A DWB, T. 79 N., R. 12 W., at cor. secs. 15, 16, 21 and 22, 36 ft N. and 60 ft E. of crossroads, and about 5 ft lower than crossroads; a rail spike in power pole S. side, painted "UE 903.2"	903.31
41 7.5	UE 20 B DWB, T. 79 N., R. 12 W., at S. sixteenth cor. between secs. 21 and 22, at Y-rd. S.-W., and T-rd. E., 100 ft S. of grassy triangle at Y-rd., 14 ft W. of center of S. leg of Y-rd., about 5 ft lower than center of rd., punched hole in 18 in. corrugated metal pipe culvert; painted "UE 885.2"	885.28
42 7.9	UE 20 C DWB, T. 79 N., R. 12 W., near S. sixteenth cor. center sec. 21, at the Steinmetz farmhouse, 17 ft N. center rd. and 132 ft E. of drive to house, 5 ft lower than center of rd., punched hole in 18 in. corrugated metal pipe culvert; painted "UE 885.3"	885.42
43 8.9	Reference mark, 100 ft N. of mark, at an 18 in. corrugated metal pipe culvert; punched hole, 17 ft E. of centerline, painted "UE 855.948"	856.02
44 8.9	Victor, 7.5 mi S. of, 2.5 mi E. of the junction Iowa 419 and R. I. RR. at, at the Lincoln Twp. Community, at the St. John's Lutheran Church, T. 79 N., R. 12 W., near the center sec. 28, 184 ft N. of entrance to the church, 4 ft S. and 48 ft E. of a T-rd. E., 38 ft NW. of a 2-car garage, 24 ft W. of last tree (elm) in a row of trees, 6 ft NE. of a power pole, 5 ft N. and 1 ft W. of a SW. fence cor., standard tablet set in top of concrete post, stamped "21 DWB 1966 859" Not painted	859.512

LINE 2 (Cont'd)

NORTH ENGLISH QUAD. 94

Feet

1	45	9.2	UE 21 A DWB, T. 79 N., R. 12 W., near quarter cor. secs. 28 and 33, at the St. John's Lutheran Cemetery, at center of second concrete step from bottom of main gate, crossmark, not painted	846.23
47	10.4		UE 21 B, T. 79 N., R. 12 W., near center SW $\frac{1}{4}$ sec. 33, about 1000 ft S. of an abandoned farmhouse, at a curve in the rd., 31 ft N. and 33 ft W. of field entrance S., a rail spike in power pole, S. side, 2.2 ft lower than field entrance S., painted "UE 857.9"	857.96
48	11.3		UE 21 C DWB, T. 78 N., R. 12 W., in NE $\frac{1}{4}$ sec. 4, at a washed out bridge site on North English River, on the N. bank of the river, on the remains of the N. bridge abutment, at the center of the abutment; a copper nail and washer, painted "UE 764.0" Water -12.4 ft.	764.04
49	12.0		Victor, 10.0 mi S. of, 3.0 mi E. of the crossing Iowa 419 and R. I. RR. at, Deep River, 0.25 mi N. of, 6.0 mi E. of, T. 78 N., R. 12 W., in SE $\frac{1}{4}$ sec. 4, about 0.1 mi SE. of the D. E. Decker farmhouse, 485 ft E. of T-rd. N., 34 ft N. of center of E.-W. dirt rd., at a crest in the fence line, 4 ft E. of a fence post, 1 ft S. of E.-W. fence; 6 in. SE. of a witness post, standard tablet set in top of concrete post projecting 6 in., stamped "22 DWB 1966 869" Painted "EM 868.6"	868.650
50	12.1		Reference mark, 80 ft NW. of mark, 70 ft N. of center of rd., rail spike at N. side of dead elm tree; painted "868.1"	868.10
52	13.0		UE 22 A DWB, T. 78 N., R. 12 W., near quarter cor. secs. 9 and 10, 48 ft S. and 39 ft W. of crossroads, punched hole in a half round hog underpass, 5.1 ft lower than crossroads, painted "UE 867.8"	867.80
53	13.5		UE 22 B DWB, T. 78 N., R. 12 W., at the cor. of secs. 9, 10, 15 and 16, 23 ft S. and 35 ft W. of and 1.5 ft lower than crossroads, punched hole in 15 in. corrugated metal pipe culvert at field entrance S., painted "UE 886.2"	886.52
54	14.5		UE 22 C DWB, T. 78 N., R. 12 W., at the cor. secs. 15, 16, 21 and 22, 40 ft N. and 30 ft E. of crossroads, 5.1 ft higher than crossroads; chiseled square on SW. cor. of bottom concrete step of abandoned school building; painted "UE 866.2"	866.50
55	14.8		Deep River, 2.25 mi S. of, 7.0 mi E. of, North English, 2.25 mi N. of, 8.5 mi W. of, T. 78 N., R. 12 W., about 0.36 mi S. of cor. secs. 15, 16, 21 and 22, at a concrete bridge over the Middle English River, 13 ft E. of center of bridge on N. bridge abutment, outside of curved wing wall, 16 ft above water; standard tablet set in concrete, stamped "23 DWB 1966 790" Painted "EM 789.5"	789.798
56	14.9		Reference mark, 70 ft SW. of mark on opposite cor. of bridge; chiseled square on curb, 12 ft W. of centerline; painted "EM 789.5"	789.82
58	16.0		UE 23 A DWB, T. 78 N., R. 12 W., at quarter cor. secs. 27 and 28, 21 ft N., 24 ft W. and 2.5 ft lower than crossroads; chiseled square on 18 in. round concrete pipe culvert; painted "UE 866.9"	867.20
59	17.0		UE 23 B DWB, T. 78 N., R. 12 W., near quarter cor. secs. 33 and 34, at a 50 ft concrete bridge over Griffer Creek, 12 ft W. of center of bridge and 6 in. higher than chiseled square on N. end of concrete curb, 17.3 ft above water, painted "UE 817.2"	817.48
60	17.7		UE 23 C DWB, T. 77 N., R. 12 W., at the N. sixteenth cor. secs. 3 and 4, 24 ft N. and 24 ft W. of T-rd. W., punched hole in a 24 in. corrugated metal pipe culvert, 2.8 ft lower than T-rd., painted "UE 888.4"	888.64

LINE 2 (Cont'd)

SIGOURNEY QUAD. 71

Feet

- 1 62 18.8 Keswick, 2.6 mi N. of, T. 77 N., R. 12 W., approx. 0.1 mi N. of quarter cor. between secs. 9 and 10, 98 ft N., 52 ft W. and 1.3 ft higher than center of N.-S. gravel rd. at T-drive W. to abandoned farmhouse, 33 ft NE. of NE. cor. of house, 4 ft NE. of fence cor. post; in a concrete post; standard tablet stamped "25 DWE 1964" Painted "BM 887.9" 887.910

LINE 3

SOUTH AND WEST IN SOUTHEAST QUARTER OF QUAD. (By D. W. Bennett, 1966, Book CV-2062)

NORTH ENGLISH QUAD. 94

- 5 6 0.0 Parnell, 1.8 mi N. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at, 8.5 poles N. of milepost 48, at a private rd. crossing, 47 ft W. of the center of the track, 18 ft N. of the center of a gate, 3 ft E. of the right-of-way fence, and about 3 ft higher than the rail; a USC&GS standard disk stamped "V 85 1934" and set in top of a concrete post 792.246
- 0.4 UE V 85 A, Tps. 78 and 79 N., R. 10 W., near quarter cor. secs. 3 and 34, at E.-W. gravel rd. and Milwaukee RR. crossing, top of W. rail at center of rd., painted "UE CL 805.3" 805.3
- 7 1.4 UE V 85 B, T. 78 N., R. 10 W., in SW $\frac{1}{4}$ sec. 3, near a church at NE. edge of Parnell, at an E.-W. gravel rd. and Milwaukee RR. crossing, top of W. rail at center of rd., painted "UE CL 858.3" 858.2
- 8 2.0 UE V 85 C, T. 78 N., R. 10 W., near N. sixteenth cor. secs. 9 and 10, at S. edge of Parnell, at crossing of N.-S. gravel rd. and Milwaukee RR., top of N. rail at center of rd., painted "UE CL 849.1" 849.0
- 9 2.8 UE V 85 D, T. 78 N., R. 10 W., near cor. secs. 9, 10, 15 and 16, at a large white farmhouse, punched hole in 12 in. corrugated metal pipe culvert, 21 ft E. and 12 ft N. of drive E. to house, painted "UE 844.5" 844.45
- 10 3.6 North English, 2.75 mi N., 3.5 mi E. of, T. 78 N., R. 10 W., near cor. secs. 15, 16, 21 and 22, near the S. E. Schlabach farmhouse, 510 ft N. and 32 ft W. of T-rd. W., 18 ft SE. of a power pole, 1 ft E. of a witness sign; standard tablet set in concrete post, stamped "39 DWB 1966 814" painted "BM 814.1" Note: No RM feasible, 500 ft to UE 39 A. 814.100
- 11 3.7 UE 39 A DWB, T. 78 N., R. 10 W., at cor. secs. 15, 16, 21 and 22, 66 ft N. and 12 ft W. of T-rd. W., 1.4 ft lower than T-rd., punched hole in 24 in. corrugated metal pipe culvert; painted "UE 788.7" 788.61
- 13 4.8 UE 39 B DWB, T. 78 N., R. 10 W., near cor. secs. 16, 17, 20 and 21, at a timber trestle RR. bridge, 2.5 rails S. of rd. crossing, on S. end of bridge, 18 in. W. of W. rail; top of last bolt S. on W. bridge rail, painted "UE 733.0" Water -10.6 ft. 732.91
- 14 5.5 UE 39 C DWB, T. 78 N., R. 10 W., near center sec. 20, at a concrete and steel bridge on the Milwaukee RR. #I-210, 16.5 rails SW. of a RR. crossing, on top of first bolt head W. of E. bridge abutment, 18 in. S. of S. rail, painted "UE 716.9" Water -18.0 ft. 716.87
- 15 6.2 North English, about 3.0 mi NE. along C. M. St. P. & P. RR. from the city hall at, 10 poles SW. of milepost 43, at 165 ft concrete bridge No. I-212, in top of NE. cor. of SW. concrete abutment, and 9 ft SE. of center of track; a USC&GS standard disk stamped "Y 85 1934" 725.645

LINE 4

Feet

SOUTH THROUGH CENTER OF QUAD. (By C. D. Lien, 1966, Book CV-2048)

MARENGO QUAD. 119

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|---|-----|--|--|---------|
| 2 | 2 | 0.0 | Ladora, at E. edge of, T. 80 N., Rs. 11 and 12 W., near quarter cor. between secs. 7 and 12, 37 ft S. and 71 ft E. of center of U.S. Hwy. 6, at T-rd. S., 3 ft W. of a power pole, in top of a concrete post; a standard tablet stamped "12 GHC 1964 772" Painted "BM 772.0" | 771.681 |
| | 1.1 | UE 12 A, T. 80 N., R. 11 W., near cor. secs. 5, 6, 7 and 8, 1.1 mi E. of Ladora, along U.S. Hwy. 6, copper nail and washer; center of crossroads, painted "774.8" | 774.87 | |
| 3 | 1.6 | UE 12 BB, T. 80 N., R. 11 W., near center sec. 5, 1.6 mi E. of Ladora, along U.S. Hwy. 6, copper nail and washer, center of crossroads, painted "765.9" | 765.92 | |
| 4 | 2.2 | UE 12 C, T. 80 N., R. 11 W., near quarter line between secs. 5 and 8, copper nail and washer in center of bridge over Bear Creek, 18.9 ft above water, painted "768.1" | 768.17 | |
| 5 | 2.3 | Reference mark, 100 ft N., 17 ft E. from center of rd. at T-rd. E., 10 ft S., 15.8 ft E. from center of rd. at private drive E., a punched hole in S. end of a metal culvert | 800.60 | |
| 6 | 2.4 | Ladora, 2.0 mi E. of, T. 80 N., R. 11 W., near the N. sixteenth cor. secs. 8 and 9, 23.6 ft N. and 200 ft E. of center of T-rd. E., 12.6 ft S. and 13.1 ft E. of SE. cor. of windmill, 1 ft S. and 1 ft E. of telephone pole; standard tablet set in a concrete post 4 in. above ground, stamped "17 CDL 1966" | 810.723 | |
| 7 | 2.8 | UE 17 A, T. 80 N., R. 11 W., center sec. 9, 0.4 mi E. along rd. from tablet, a copper nail and washer in the center of a wooden bridge, 11.4 ft higher than drain, painted "765.3" | 765.40 | |
| 9 | 3.6 | UE 17 B, Ladora, 3.0 mi E. of, T. 80 N., R. 11 W., near the N. sixteenth cor. lines 9 and 10, 38.9 ft N., 19 ft E. and 3.9 ft lower than T-rd. W., painted "820.8"; a punched hole in the E. end of a metal culvert | 820.84 | |

NORTH ENGLISH QUAD. 94

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|----|-----|--|---------|
| 11 | 4.3 | Ladora, 0.75 mi S. and 3.0 mi E. of, T. 80 N., R. 11 W., sec. cors. 9, 10, 15 and 16, 18.7 ft N., 37 ft W. and 1.1 ft higher than private drive E., 6.2 ft S. of telephone pole, 1.7 ft E. of witness post; a standard tablet in a concrete post stamped "18 CDL 1966" | 836.019 |
| 13 | 5.3 | UE 18 A, Ladora, 1.75 mi S. and 3.0 mi E. of, T. 80 N., R. 11 W., sec. cors. 15, 16, 21 and 22, 22.7 ft S., 27.1 ft W. and 2.7 ft lower than crossroads, a punched hole in the W. end of a metal culvert, painted "817.3" | 817.38 |
| 15 | 6.3 | UE 18 B, Ladora, 2.75 mi S. and 3.0 mi E. of, T. 80 N., R. 11 W., sec. cors. 21, 22, 27 and 28, 34 ft N., 94.2 ft W. and 1.3 ft lower than crossroads; a chiseled square in the SW. cor. of a cement sidewalk to the Trinity United Church of Christ, painted "852.3" | 852.36 |
| 16 | 7.1 | Reference mark, 6 ft S., 28 ft W. from tablet, a chiseled square in the SW. cor. of headwall on a concrete culvert | 825.52 |

LINE 4 (Cont'd)

NORTH ENGLISH QUAD. 94

Feet

2 17 7.1	Ladora, 3.5 mi S. and 3.0 mi E. of, Williamsburg, 3.25 mi N. and 6.0 mi W. of, T. 80 N., R. 11 W., near the S. sixteenth cor. secs. 27 and 28, 14 ft E. of center of rd., a standard tablet set in the E. headwall of a concrete culvert, 0.1 ft lower than the rd., stamped "19 CDL 1966"	825.442
18 7.3	UE 19 A, T. 80 N., R. 11 W., at cor. secs. 27, 28, 33 and 34, 0.25 mi S. of tablet, 30 ft N. and 31 ft W. of T-rd. E., 2.6 ft lower than center of T-rd., rail spike in W. side of telephone pole, painted "865.1"	865.15
19 7.9	UE 19 B, Trinity Church, 1.5 mi S. of, T. 80 N., R. 11 W., near the quarter cor. secs. 33 and 34, in the SE. cor. of a concrete bridge over Interstate 80, 1 ft higher than rd.; chiseled square painted "875.5"	875.60
20 8.3	UE 19 C, Trinity Church, 2.0 mi S. of, Tps. 79 and 80 N., R. 11 W., at cor. secs. 3, 4, 33 and 34, 14 ft N. and 23 ft W. of T-rd. W., 0.6 ft lower than rd.; a chiseled square on the N. end of a concrete culvert, painted "804.0"	804.05
22 9.2	UE 19 D, Trinity Church, 3.0 mi S. of, T. 79 N., R. 11 W., at sec. cors. 3, 4, 9 and 10, 47 ft N. and 20 ft E. of crossroads, 5.6 ft lower than crossroads, a punched hole in the E. end of a metal culvert; painted "856.2"	856.24
24 9.6	UE 19 E, Williamsburg, 0.5 mi N., 6.0 mi W. of, Trinity United Church of Christ, 3.5 mi S. of, T. 79 N., R. 11 W., near the quarter cor. between sec. lines 9, and 10; a chiseled square on the E. headwall of a box concrete culvert, 12.2 ft higher than drain, 0.4 ft higher than center of rd. over culvert, painted "841.8"	841.88
25 10.3	Reference mark, 157 ft S., 19 ft W. from crossroads, 215 ft N., 19 ft W. from tablet; a punched hole in the W. end of a metal culvert	865.96
26 10.3	Trinity Church, 4.0 mi S. of Williamsburg, 6.0 mi W. of, T. 79 N., R. 11 W., near cor. secs. 9, 10, 15 and 16, 372 ft S. and 27 ft E. of crossroads, 17 ft N. and 27 ft E. of center of field rd. E., 2 ft W. of fence, 1 ft lower than rd.; standard tablet in a concrete post projecting 4 in. above ground, stamped "20 CDL 1966"	874.456
27 11.0	UE 20 A, Williamsburg, 0.75 mi S. 6.0 mi W. of, Trinity Church, 4.75 mi S. of, T. 79 N., R. 11 W., near the S. sixteenth cor. between sec. lines 15 and 16, 18 ft N., 36 ft E. and 2 ft lower than center of rd. at T-rd. E., a punched hole in a metal culvert painted "891.0"	891.08
28 11.2	UE 20 B, Trinity Church, 5.0 mi S. of, T. 79 N., R. 11 W., sec. cors. 15, 16, 21 and 22, 61 ft S., 19 ft E. and 2.9 ft lower than rd. at T-rd. W., a punched hole in the N. end of a metal culvert under private drive to Bell Telephone Station, painted "904.2"	904.33
30 12.5	UE 20 C, Trinity Church, 6.2 mi S. of, T. 79 N., R. 11 W., near the N. sixteenth cor. secs. 27 and 28, 9 ft S. and 36 ft W. of center of field rd. W., 2.9 ft higher than rd.; a rail spike in pole, painted "860.4"	860.52
32 13.2	Trinity Church, 7.0 mi S. of, Williamsburg, 3.0 mi S. and 6.0 mi W. of, T. 79 N., R. 11 W., cor. secs. 27, 28, 33 and 34, 53 ft N., 37 ft E. and 2.5 ft higher than center of T-rd. E., 3 ft NW. of fence cor., 5 ft N. of telephone pole, in concrete post set 4 in. above ground; a standard tablet stamped "21 CDL 1966"	829.596

8
NORTH ENGLISH QUADRANGLE
94 - Iowa

LINE 4 (Cont'd)

NORTH ENGLISH QUAD. 94

Feet

2	33	13.7	UE 21 A, Williamsburg, 3.5 mi S. and 6.0 mi W. of, 0.51 mi S. along rd. from tablet, 41 ft S., 30 ft E. and same elevation as T-rd. W., a rail spike in W. side of telephone pole, painted "744.3"	744.44
34	14.3	UE 21 B, Williamsburg, 4.0 mi S., 6.0 mi W. of, 1.1 mi S. of tablet, T. 78 N., R. 11 W., near sec. cors. 3, 4, 33 and 34, a chiseled square in the NE. cor. of a concrete bridge over the North English River, 0.5 ft higher than center of bridge, 21.5 ft higher than water, painted "739.8"	739.95	
35	14.9	UE 21 C, 1.75 mi S. along rd. from tablet, T. 78 N., R. 11 W., near quarter cor. between secs. 3 and 4, a copper nail and washer in center of crossroads, painted "838.8"	838.93	
37	15.7	UE 21 D, Williamsburg, 5.25 mi S., 6.0 mi W. of, T. 78 N., R. 11 W., near the S. sixteenth cor. sec. 9 and 10, 46 ft N., 20 ft W. and 0.6 ft higher than center of rd. at T-rd. W., a chiseled square in the SE. cor. of a cement step to the Pleasant Grove Brethren Church, painted "865.1"	865.22	
38	16.4	Williamsburg, 6.0 mi S. and 6.0 mi W. of, North English, 4.0 mi N. and 2.0 mi W. of, Pleasant Grove Church, 0.7 mi S. of, T. 78 N., R. 11 W., S. cor. secs. 9, 10, 15 and 16, 200 ft N. and 30 ft E. of T-rd. W., 15 ft S. and 30 ft E. and 0.7 ft higher than private drive W. to Norman Grimm farm, in concrete post projecting 4 in. above ground, a standard tablet stamped "22 CDL 1966"	854.486	
39	16.4	Reference mark, 156 ft S., 57 ft W. from tablet, 18 ft N., 24 ft W. from T-rd. W.	848.81	
40	16.9	UE 22 A, Pleasant Grove Church, 1.2 mi S. of, 24 ft S., 33 ft W. and 3.5 ft higher than T-rd. E., rail spike in telephone pole, painted "856.8"	856.93	
41	17.4	UE 22 B, Pleasant Grove Brethren Church, 1.71 mi S. of, T. 78 N., R. 11 W., quarter cor. secs. 15 and 16, 18 ft S., 25 ft E. and 3.7 ft lower than crossroads, a punched hole in the S. end of a metal culvert, painted "775.3"	775.43	
42	17.8	UE 22 C, Pleasant Grove Church, 2.2 mi S. of, a copper nail and washer in center of steel bridge over Middle English River, 16 ft higher than water, painted "743.5"	743.61	
43	18.4	UE 22 D, Pleasant Grove Church, 2.75 mi S. of, T. 78 N., R. 11 W., near sec. cors. 21, 22, 27 and 28, 190 ft S., 20 ft W. from crossroads, a punched hole in a metal culvert 4.4 ft lower than center of rd. over culvert, painted "823.4"	823.48	
44	18.9	UE 22 E, Pleasant Grove Church, 3.25 mi S. of, T. 78 N., R. 11 W., near the quarter cor. between secs. 27 and 28, 41 ft N., 44 ft W. and 1.1 ft lower than crossroads, a punched hole in the E. end of a metal culvert under a field drive N., painted "770.1"	770.24	
45	19.3	UE 22 F, Pleasant Grove Church, 3.8 mi S. of, copper nail and washer center of steel bridge over Gritter Creek, 16.8 ft higher than water, painted "751.5"	751.64	
46	19.4	North English, 0.5 mi N., 2.0 mi W. of Pleasant Grove Brethren Church, 3.75 mi S. of, T. 78 N., R. 11 W., near sec. cors. 27, 28, 33 and 34, 24 ft S., 220 ft W. from private drive S., 80 ft NE. from the NE. cor. of an abandoned red brick schoolhouse, 5.6 ft S., 3 ft W. from fence cor., 24 ft S. and 0.5 ft higher than center of rd. opposite BM; a standard tablet in concrete post stamped "23 CDL 1966"	789.166	

LINE 4 (Cont'd)

NORTH ENGLISH QUAD. 94

Feet

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|-----------|---|--------|
| 2 47 19.4 | Reference mark, 80 ft SW. from tablet, a chiseled square on the NE. cor. of a cement foundation of a red brick schoolhouse | 789.64 |
| 48 19.7 | UE 23 A, North English, 0.5 mi N., 2.25 mi W. of, T. 78 N., R. 11 W., E. sixteenth cor. secs. 28 and 33; a copper nail and washer in center of wooden bridge, 7.4 ft higher than drain, painted "767.8" | 767.94 |
| 49 20.3 | UE 23 B, North English, 2.25 mi W. of, T. 78 N., R. 11 W., near the center of sec. 33, 30 ft S., 36 ft E. and 1 ft higher than crossroads, rail spike in telephone pole, painted "857.7" | 857.86 |
| 50 21.1 | UE 23 C, North English, 1.5 mi W. of, T. 78 N., R. 11 W., near the center of sec. 34, 28 ft N., 140 ft E. from center of rd. at private drive N., 28 ft N., 72 ft W. and 4.2 ft higher than T-rd. S., a rail spike in telephone pole, "841.8" | 841.87 |
| 51 21.5 | DE 23 D, North English, 0.5 mi S., 1.5 mi W. of, S. edge of, T. 78 N., R. 11 W., near the quarter cor. between sec. lines 3 and 34, a copper nail and washer in center of a wooden bridge, 5.4 ft higher than drain, painted "763.1 23 D" | 763.25 |

SIGOURNEY QUAD. 71

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|---------|--|---------|
| 53 22.4 | UE 23 E, North English, 1.5 mi S., 1.5 mi W. of, T. 77 N., R. 11 W., near the quarter cor. between sec. lines 3 and 10, 42 ft N., 39 ft E. and 3.9 ft lower than center of rd. at T-rd. N., a rail spike in telephone pole, painted "838.9" | 839.05 |
| 55 23.4 | North English, 1.5 mi SW. along the C. M. St. P. & P. RR. from the city hall at, 20 poles SW. of milepost 39, at the concrete overhead crossing of State Hwy. 149, in the face of the S. concrete pier, 12 ft NW. of the center of the track and 5 ft above the rail; a USCGS standard disk stamped "B 86 1934" and set vertically | 835.930 |

LINE 5

EAST ALONG WEST HALF NORTH BORDER (By G. H. Clarin, 1964, Book CV-1690)

MARENGO QUAD. 119

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|------|---|---------|
| 13.8 | "11 GHC 1964 896" (Described in Line 1) | 895.475 |
| 14.8 | UE 11 A, 1.0 mi E. along rd. from tablet, T. 80 N., R. 12 W., 0.2 mi N. of cor. secs. 10, 12, 14 and 15, 22 ft S., 23 ft W. and 4.3 ft lower than crossroads, in S. end of a 14 in. corrugated steel pipe culvert, punched hole, painted "UE 795.7" | 795.17 |
| 15.6 | Rd. at bridge | 774.9 |
| 15.8 | UE 11 B, 2.0 mi E. along rd. from tablet, T. 80 N., R. 12 W., 0.3 mi N. of cor. secs. 11, 12, 13 and 14, 22 ft N., 36 ft E. and 0.2 ft lower than center of U.S. Hwy. 6 at crossroads, in W. side of power pole, a rail spike, painted "UE 776.2" | 775.92 |
| 16.8 | Reference mark, 165 ft W. of tablet, in center of SW. headwall of a concrete culvert; a chiseled square | 777.08 |
| 16.9 | "12 GHC 1964 772" (Described in Line 4) | 771.681 |

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NORTH ENGLISH QUADRANGLE
94 - Iowa

LINE 5 (Cont'd)

MARENGO QUAD. 119

Feet

SPUR LINE

0.4	Reference mark 2, a chiseled square on top of downstream wing wall of the left bridge abutment; Gaging Station Bear Creek	777.036
0.4	Reference mark 1, a chiseled square on top of downstream wing wall of the right bridge abutment; Gaging Station Bear Creek	776.985
18.5	Hwy. at crossroad	765.7
19.1	UE 12 B, 2.2 mi E. along U.S. Hwy. 6 from tablet, T. 80 N., R. 11 W., on line between secs. 4 and 5, at RR. crossing; top of S. rail at center of N.-S. rd., painted "764.5"	764.08
19.5	UE 6 D, 1.4 mi S., 0.2 mi E. thence 1.2 mi S. along rd. from tablet, Tps. 80 and 81 N., R. 11 W., near cor. secs. 4, 5, 32 and 33, 17 ft N., 21 ft W. and 0.8 ft lower than center of rd. at T-rd. N., and trail S., in NW. end of an 18 in. corrugated steel pipe culvert, a punched hole, painted "UE 772.7"	772.41