

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

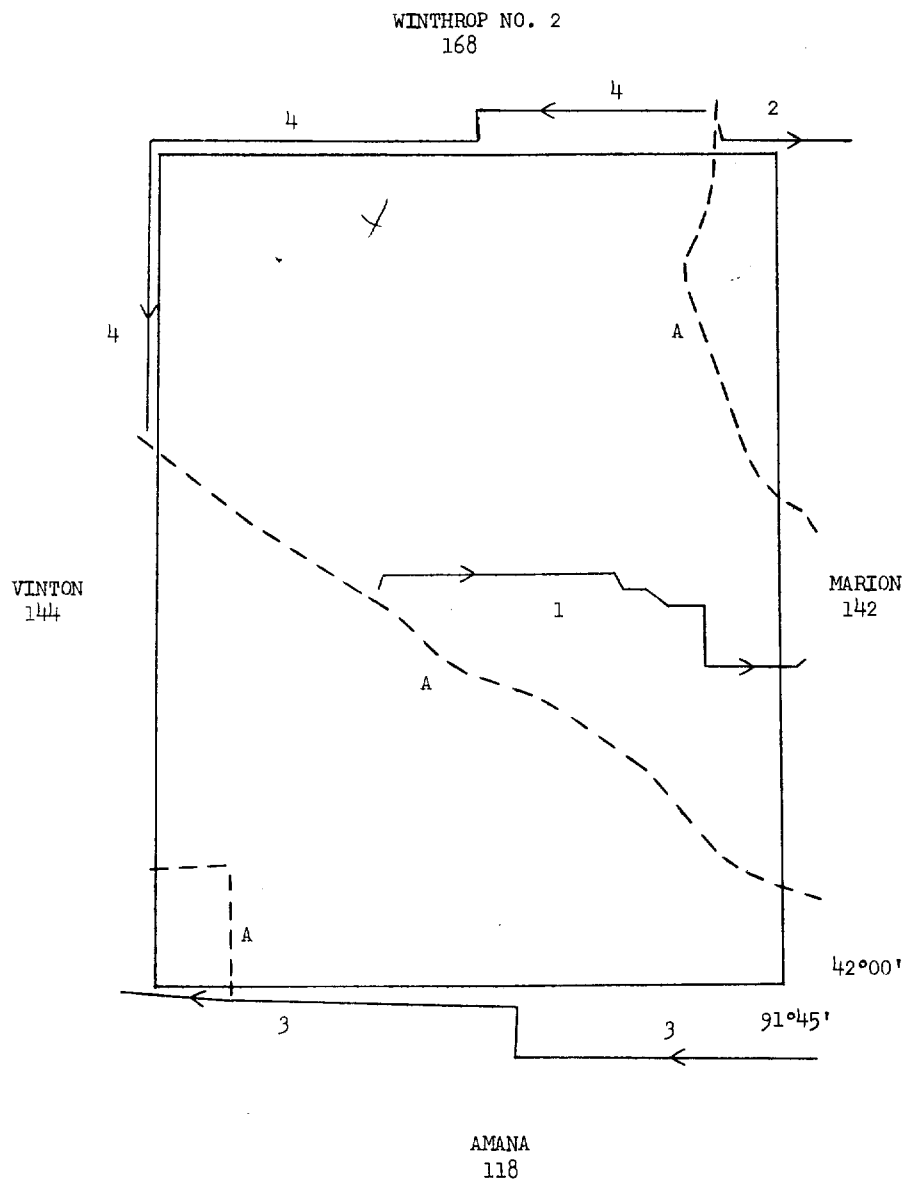
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SHELLSBURG QUADRANGLE
143 - Iowa
N4200-W9145/15
Diagram NK 15-6
Dubuque, Ill.-Iowa-Wisc.

Benton and Linn Counties

Edition of 10/13/66

PR: ADP/ct



USC&GS LEVELING

A. No. 420913

143 B

2
SHELLSBURG QUADRANGLE
143 - Iowa

LINE 1

Feet

EAST ALONG EAST HALF EAST-WEST CENTERLINE (By C. D. Lien, 1966, Book CV-2044)

SHELLSBURG QUAD. 143

2	1	0.0	Greasers, 1.7 mi SE. along the Chicago, Rock Island and Pacific RR. from, 6 poles NW. of milepost 114, at 120 ft steel bridge 1142, in the SW. end of the back wall of the SE. stone abutment, 10 ft SW. of the center of the track, and 1 ft lower than the rail; a USC&GS standard disk stamped "G 81 1934"	811.583
		0.6	UE, Tps. 84 and 85 N., R. 10 W., near the cor. of secs. 4, 5, 32 and 33, Shellsburg, 2.0 mi N. and 2.0 mi W. along rd., 6 ft S., 8 ft E. from center of rd. at rd. W., a chiseled square in the NE. cor. of concrete bridge, 8 ft higher than center of rd. on bridge, 14.8 ft higher than water, painted "814.0"	814.05
2	1.3	UE, 0.58 mi E. along rd. from sec. cors. 4, 5, 32 and 33, Tps. 84 and 85 N., R. 10 W., 33 ft N. of private drive S., a rail spike in telephone post, painted "917.0"	916.99	
3	1.5	UE A, rail spike in telephone pole, near the cor. of secs. 3, 4, 33 and 34, in T. 85 N., Range lines 9 and 10 W., 32 ft N., 34 ft W. from crossroads, 1.4 ft lower than crossroads, painted "901.6"	901.61	
4	2.5	Tps. 84 and 85 N., R. 9 W., near the sec. cors. 2, 3, 34 and 35, Shellsburg, 2.0 mi N. along rd., 48 ft S., 51 ft E. from center of crossroads, 2 ft E. of right of way fence, 0.06 ft S. of witness post; a standard disk in a concrete post projecting 4 in. above ground, stamped "6 CDL 1966"	893.051	
5	2.5	Reference mark, 21 ft N., 12 ft W. from tablet, 29 ft S., 39 ft E. from crossroads, a chiseled square on the W. end of a concrete culvert	891.34	
	3.3	UE, T. 85 N., R. 9 W., 0.8 mi E. of BM, near the NE. cor. of sec. 2, Shellsburg, 2.0 mi N., 0.8 mi E. along rd., 22 ft S., 20 ft W. of center of rd. at drive S., a punched hole in a metal culvert, 1.3 ft lower than rd. at drive S., painted "873.5"	873.64	
6	3.8	UE, 1.25 mi E. of tablet, 37 ft S., 84 ft E. of crossroads, 2.6 ft lower than crossroads, a rail spike in telephone pole, painted "851.2"	851.32	
8	4.6	Tps. 84 and 85 N., R. 9 W., near the SE. cor. of sec. 36, Shellsburg, 2.0 mi N. and 2.1 mi E. along rd., 1.5 ft S., 29 ft W. of N.-W. fence cor., 23 ft N., 183 ft E. from center of rd. at private drive N., 2 ft E. of witness post; in concrete post a USC&GS and IGS standard disk stamped "300 Elev. 878.0" Elevation by USGS	878.247	
9	4.6	Reference mark, 0.11 mi E. along rd. from tablet, 32 ft S., 51 ft W. from center of rd. at T-rd. S., a rail spike in a telephone post, post no. 3794 $\frac{1}{2}$	857.73	
10	5.4	Tps. 84 and 85 N., R. 9 W., near the NE. cor. of sec. 6, Shellsburg, 2.0 mi N. and 2.85 mi E. along rd., 29 ft S., 12 ft E. from private drive N. to the F. D. Pickerill farm, 4 ft N. of right of way fence; in a concrete post, a USC&GS and IGS standard disk stamped "USC&GS 258" Elevation by USGS	828.835	
11	5.4	Reference mark, 0.1 mi E. along rd. from tablet, 72 ft S., 92 ft W. from center of rd. at T-rd. W., 3 ft N., 19 ft W. from NE. cor. of old farmhouse; a chiseled square in a concrete foundation around basement window, on N. side of house	797.00	

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SHELLSBURG QUADRANGLE
143 - Iowa

LINE 1 (Cont'd)

SHELLSBURG QUAD. 143

Feet

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|----|------|--|--|--------|
| 2 | 12 | 5.9 | UE, T. 84 N., R. 8 W., near the quarter cor. between secs. 5 and 6, Shellsburg, 1.6 mi N. and 2.95 mi E. along rd., 45.6 ft S., 16 ft W. from center of rd. at T-rd. E., 2.5 ft lower than center of rd. at T-rd. E., a punched hole in a metal culvert on W. side of rd., painted "838.9" | 839.22 |
| 13 | 6.4 | UE, near the center of sec. 5, in T. 84 N., R. 8 W., 35.6 ft N., 82 ft W. from center of crossroads, 2 ft higher than center of crossroads, a rail spike in telephone pole, painted "879.0" | 879.32 | |
| 14 | 7.0 | UE, T. 84 N., R. 8 W., near the quarter cor. between secs. 4 and 5, Shellsburg, 1.4 mi N. and 4.0 mi E., 15.5 ft N. from center of E.-W. rd. projecting rd. S., 13 ft S., 10 ft E. from cor. of T-fence N., 3 ft lower than center of rd. over culvert, a punched hole in a metal culvert, painted "863.7" | 864.03 | |
| 16 | 7.8 | UE, 0.5 mi S., 2.0 mi E. from tablet, 37 ft S., 40.8 ft E. from center of rd. at private drive E., a rail spike in the W. side of a telephone pole, painted "871.2" | 871.61 | |
| 18 | 8.7 | Reference mark 1, 0.25 mi N. from tablet, 15 ft S., 25 ft E. from center of rd. at field rds. E.-W., a chiseled square in a concrete culvert | 749.83 | |
| 19 | 8.7 | Reference mark 2, 70 ft W. from tablet, a punched hole in metal culvert | 747.42 | |
| 20 | 8.7 | T. 84 N., R. 8 W., near the sixteenth cor. between secs. 9 and 16, Shellsburg, 4.8 mi E., 18 ft N., 73 ft E. from center of N.W. rd. at field rd. E., 4 ft N., 1 ft W. from fence cor.; a standard disk in a concrete post stamped "7 CDL 1966 Elev. 748.3" | 748.735 | |
| 26 | 10.4 | UE, 1.45 mi E. of tablet, 11 ft N., 160 ft W. from center of rd. at bend, a rail spike in lone fence post, painted "908.7" | 909.22 | |

MARION QUAD. 142

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|----|------|--|---------|
| 27 | 11.2 | UE, 0.25 mi N., 2.0 mi E. from tablet, 37.6 ft S., 31.6 ft W. from center of rd. at T-rd. W., a rail spike N. side of telephone pole, 2.6 ft lower than center of rd. at T-rd. W., painted "910.2" | 910.72 |
| 28 | 11.6 | Reference mark, 70 ft S., 40 ft E. from tablet, a chiseled square in a concrete culvert under private drive S. | 936.17 |
| 28 | 11.6 | T. 84 N., R. 8 W., near the center of sec. 11, Shellsburg, 0.25 mi N. 6.5 mi E., 42.6 ft N., 161 ft W. from center of rd. at T-rd. N., in a concrete post; USC&GS and IGS disk stamped "USC&GS 57-915" Elevation by USGS | 946.541 |

LINE 2

EAST NEAR NORTHEAST CORNER OF QUAD. (By C. D. Lien, 1966, Book CV-2044)

WINTHROP NO. 2 QUAD. 168

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|---|----|-----|--|---------|
| 2 | 32 | 0.0 | Walker, 2.2 mi SE. along the C. R. I. & P. RR. from the station at, 15 poles N. of milepost 22, at 120 ft steel bridge 225, in top of the W. end of the N. stone abutment, 11 ft W. of the center of the track and 2 ft lower than the track; a USC&GS standard disk stamped "L 75 1934" | 838.693 |
|---|----|-----|--|---------|

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SHELLSBURG QUADRANGLE
143 - Iowa

LINE 2 (Cont'd)

Feet

WINTHROP NO. 2 QUAD. 168

- 2 32 0.2 UE, T. 86 N., R. 8 W., near the sec. cors. 15, 16, 21 and 22, Walker, 2.0 mi S., 0.5 mi E. along rd., 23 ft N., 59 ft E. from center of crossroads, a punched hole in a metal culvert, 4.5 ft lower than crossroads, painted "27 B 833.8" 833.81
- 33 1.1 UE, 1.7 mi E. along rd. from tablet, 28 ft S., 12.5 ft W. from center of rd. at field rd. S., 2.2 ft lower than rd. at field rd. S., a rail spike in telephone pole, painted "26 B 905.0" 905.04

WINTHROP NO. 1 QUAD. 167

- 34 1.6 UE, 1.63 mi E. along rd. from tablet, 32 ft S., 41 ft E. from center of crossroads, 2.1 ft lower than center of crossroads, a rail spike in telephone pole, painted "25 B 923.1" 923.14
- 35 2.3 UE, 2.27 mi E. along rd. from tablet, near the SW. sixteenth cor. of sec. 13, the NW. sixteenth cor. of sec. 24, in T. 86 N., R. 8 W., a copper nail and washer in the center of wooden bridge, 6.6 ft higher than drain, painted "24 B 893.2" 893.24
- 36 3.1 T. 86 N., Rs. 7 and 8 W., in the NW. cor. of sec. 19, Walker, 2.0 mi S. and 3.5 mi E. along rd., 21 ft S., 38 ft E. from center of crossroads, 2 ft N. of evergreen tree, same elevation as crossroads; a standard tablet in a concrete post stamped "8 CDL 1966 Elev." 911.882

LINE 3

WEST ALONG SOUTH BORDER, (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

- 1 55 2.7 About 0.3 mi N. thence about 2.4 mi W. along East Ave. NW. from the post office of Cedar Rapids, near the cor. of East Ave. NW. and Edgewood rd., 39 ft S. of the SE. cor. of the Edgewood School #1, 34 ft E. of the walk leading to the main entrance, 42 ft N. of E. Ave. NW., 27 ft W. of a 3 ft in diameter oak tree, on top of a concrete post; a standard tablet stamped "7 DDB 1966" 807.793
- 57 3.8 UE CL, 1.1 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 23, 24, 25 and 26, T. 83 N., R. 8 W., at the center of the street crossing; a chiseled square painted "UE CL A 855.7" 855.76

AMANA QUAD. 118

- 58 4.7 UE 7 B, 2.0 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 22, 23, 26 and 27, T. 83 N., R. 8 W., 30 ft S., 27 ft E. and 1.9 ft lower than the center of the crossroads, on top of the E. end of the round concrete culvert; a chiseled square, painted "UE 7 B 828.3" 828.38
- 59 5.7 Reference mark, 31 ft E. of the tablet, 28 ft S. and 14 ft E. of the crossroads, on top of the E. abutment of the concrete box culvert; a chiseled square 769.87
- 60 5.8 Cedar Rapids, 0.3 mi N. thence 5.4 mi W. along East Ave. NW. and Co. Rd. #72 which starts at the city limits going W. from the post office near the cor. of secs. 21, 22, 27 and 28, T. 83 N., R. 8 W., 25 ft S., 15 ft W. and 1 ft lower than the center of the crossroads, on top of the W. abutment of a concrete box culvert; a standard tablet stamped "8 DDB 1966" 769.853

LINE 3 (Cont'd)

AMANA QUAD. 118

Feet

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|----------|---|---------|
| 1 61 6.0 | UE 8 A, 0.2 mi W. along County rd. #72 from the tablet, in the center and on the top of the S. abutment of the concrete bridge; a chiseled square, painted "UE 8 A 764.7" | 764.78 |
| 62 6.8 | UE 8 B, 1.0 mi W. along County rd. #72 from the tablet, near the cor. of secs. 20, 21, 28 and 29, T. 83 N., R. 8 W., 29 ft S., 38 ft E. and 2.9 ft lower than the center of the crossroads, on top and on the E. end of a round metal culvert; a punched hole, painted "UE 8 B 815.3" | 815.39 |
| 63 7.8 | UE 8 C, 2.0 mi W. along County rd. #72 from the tablet, near the cor. of secs. 19, 20, 29 and 30, T. 83 N., R. 8 W., 17 ft N., 56 ft E. and 2 ft lower than the center of the crossroads, on top and on the N. end of a round metal culvert; a punched hole, painted "UE 8 C 845" | 845.14 |
| 64 8.8 | Reference mark, 115 ft S. of the tablet, 61 ft S. and 21 ft W. of the crossroads, on top and on the W. end of a round metal culvert; a punched hole | 889.71 |
| 65 8.8 | Cedar Rapids, 0.3 mi N. and 8.5 mi W. of the post office, 1.2 mi S. and 1.0 mi E. of Atkins; near the cor. of secs. 19, 24, 25 and 30, T. 83 N., R. 8 and 9 W., 56 ft N., 34 ft W. and 3.3 ft lower than the center of the crossroads; 22 ft N. of the cor. fence post, 12 ft N. of the center of a field entrance, 1 ft E. of the W. right-of-way fence; on top of a concrete post; a standard tablet stamped "9 DDB 1966 891" | 891.061 |
| 66 9.8 | UE 9 A, 1.0 mi W. along County rd. #72 from the tablet, near the cor. of secs. 23, 24, 25 and 26, T. 83 N., R. 9 W., and at the junction of County Rd. 72 and State Hwy. 279, 38 ft N., 35 ft E. and 5.3 ft lower than the center of the crossroads; on top of a concrete slabed culvert; a chiseled square, painted "UE 9 A 885.3" | 885.34 |
| 67 10.8 | UE 9 B, 1.0 mi W. thence 1.0 mi N. of the tablet, near the cor. of secs. 13, 14, 23 and 24, T. 83 N., R. 9 W., 161 ft S., 21 ft E. and 2.4 ft lower than the center of the T-rd. S., on top and on the N. end of a round metal culvert of a private drive leading E., a punched hole, painted "UE 9 B 861.2" | 861.28 |
| 68 12.0 | Atkins, about 0.6 mi W. along County Rte. "A" from, about 760 ft W. of the cor. of secs. 14, 15, 22 and 23, T. 83 N., R. 9 W., 15 ft S. and 0.2 ft lower than the center of the Hwy., on top of the S. abutment of the concrete box culvert; a standard tablet stamped "10 DDB 1966 840" | 840.098 |
| 69 12.9 | UE 10 A, 0.9 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 83 N., R. 9 W., 355 ft W. and 12 ft S. and 1.2 ft higher than the center of the crossroads, on top of the S. abutment of the concrete bridge over Dry Creek, a chiseled square, painted "UE 10 A 823" | 823.12 |
| 70 13.8 | UE 10 B, 1.7 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 16, 17, 20 and 21, T. 83 N., R. 9 W., 69 ft S., 35 ft W. and 5 ft lower than the center of the crossroads, on the S. side of a power pole, a rail spike, painted "UE 10 B 844.6" | 844.71 |
| 71 14.7 | Atkins, 3.5 mi W. of, about 1.7 mi E. along County Rd. "A" from New Hall, near the cor. of secs. 17, 18, 19 and 20, T. 83 N., R. 9 W., 48 ft N. and 273 ft E. of the crossroads, 123 ft E. and 9.3 ft lower than the center of the private drive N., 7 ft E. of the cor. fence post and 3 ft S. of the N. right-of-way fence; on top of a concrete post; a standard tablet stamped "11 DDB 1966 882" | 882.413 |

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SHELLSBURG QUADRANGLE
143 - Iowa

LINE 3 (Cont'd)

AMANA QUAD. 118

Feet

- 1 72 14.8 Reference mark, 116 ft W. of the tablet, 43 ft N. and 14 ft E. of the private drive N., on top and on the N. end of the round metal culvert; a punched hole 886.85
- 73 15.8 UE 11 A, 1.0 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 13, 18, 19 and 24, T. 83 N., Rs. 9 and 10 W., 61 ft N., 31 ft E. and 3.4 ft lower than the center of the crossroads; on the SW. side of a power pole, a rail spike, painted "UE 11 A 901.0" 901.09
- 74 16.8 New Hall, in the town of, near the cor. of secs. 13, 14, 23 and 24, T. 83 N., R. 10 W., at the main entrance to the New Hall Public School and on the W. end of the second step; a standard tablet stamped "12 DDB 1966" 898.922
- 75 16.8 Reference mark, 69 ft W. of the tablet, 16 ft E. of the bus loading zone driveway, 70 ft S. of the center of the street, on the S. side of maple tree, 4 ft in diameter; a rail spike driven horizontally into the root 894.71
- 76 17.8 UE 12 A, 1.0 mi W. along the dirt and gravel rd. from the tablet; near cor. of secs. 14, 15, 22 and 23, T. 83 N., R. 10 W., 15 ft N., 30 ft W. and 2.3 ft lower than the center of the crossroads; on top and on the N. end of the round metal culvert; a punched hole, painted "UE 12 A 909.3" 909.39
- 77 18.8 UE 12 B, 2.1 mi W. along the dirt and gravel rd. from the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 83 N., R. 10 W., 17 ft N., 31 ft W. and 1.5 ft lower than the center of the crossroads, on top and on the N. end of a round metal culvert; a punched hole, painted "UE 12 B 929.2" 929.34

MARENGO QUAD. 119

- 78 19.8 UE 4 B, 1.9 mi E. along rd. from tablet, T. 82 N., R. 10 W., near cor. secs. 16, 17, 20 and 21, 21 ft S., 40 ft W. and 0.3 ft lower than center of U.S. Hwy. 218 at crossroads, on the S. end of a 14 in. round concrete culvert; chiseled square 900.08

LINE 4

WEST ALONG NORTH BORDER AND SOUTH ALONG NORTH HALF OF WEST BORDER (By D. D. Bolin, 1966, Book CV-2042)

WINTHROP NO. 2 QUAD. 168

- 3 2 0.0 Walker, 2.2 mi SE. along the C. R. I. & P. RR. from the station at, 15 poles N. of milepost 22, at 120 ft steel bridge 225, in the top of the W. end of the N. stone abutment, 11 ft W. of the center of the track, and 2 ft lower than the track; a USC&GS standard disk stamped "L 75 1934" 838.693
- 0.4 UE L A Centerline, 0.4 mi W. along the dirt and graveled rd. from the disk, at the quarter cor. between secs. 16 and 21, T. 86 N., R. 8 W., in the center of State Hwy. 150 at the E.-W. rd. crossing, a rail spike, painted "UE L A CL" 877.83
- 3 1.1 0.5 mi N. and 0.6 mi W. of disk "L-75", near the center of sec. 16, T. 86 N., R. 8 W., 13 ft S. of the center of the dirt and gravel rd., 375 ft W. of the center of State Hwy. 150 at the T-rd. W., on top and in the center of the S. headwall of the small concrete bridge; a "Linn County Engr. Dept." brass cap stamped "996 1929" painted "BM L-A" Elevation by USGS 862.580

LINE 4 (Cont'd)

WINTHROP NO. 2 QUAD. 168

Feet

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|-----|-----|---|---------|
| 3 4 | 2.3 | Reference mark, 30 ft ENE. of the tablet, 32 ft N. and 31 ft E. of the T-rd. S., on the SW. root of maple tree, 3 ft in diameter; a steel screw and washer | 918.82 |
| 5 | 2.3 | Walker, 2.0 mi S. and about 1.7 mi W. of, near the W. sixteenth cor. between the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of sec. 17, T. 86 N., R. 8 W., 29 ft N., 2 ft E. and 0.7 ft lower than the center of the T-rd. S., 6 ft E. of the cor. fence post, and in the SW. cor. of the farmyard, on top of a concrete post; a standard tablet stamped "19 DDB 1966 918" | 918.416 |
| 6 | 3.3 | UE 19 A, 1.0 mi W. along County rd. #F-52 from the tablet, near the center of sec. 18, T. 86 N., R. 8 W., 30 ft S., 33 ft W. and 3.7 ft lower than the center of the T-rd. S. which is Linn County Rd. #10; on the E. side of a power pole, a rail spike, painted "UE 19 A" | 902.09 |
| 7 | 3.9 | UE 19 B, 1.6 mi W. along County rd. #F-52 from the tablet, about 0.2 mi W. of the center of sec. 13, T. 86 N., R. 9 W., 11 ft N. and 0.6 ft higher than the center of the iron and concrete bridge, on top and in the center of the N. headwall; a chiseled square, painted "UE 19 B" | 830.55 |
| 8 | 4.3 | UE 19 C, 2.0 mi W. along County rd. #F-52 from the tablet, near the W. sixteenth cor. of sec. 13, T. 86 N., R. 9 W., 21 ft N., 66 ft W. and 1.9 ft lower than the center of the crossroads, on top and on the N. end of the round metal culvert; a punched hole, painted "UE 19 C" | 873.33 |
| 9 | 5.4 | Reference mark, 212 ft ESE. of the tablet, on the N. end of the bottom step of the side entrance (E.) of the church; a chiseled square | 930.46 |
| 10 | 5.5 | Urban, 2.5 mi N. of, near the quarter cor. between secs. 14 and 15, T. 86 N., R. 9 W., located in the NW. cor. of the Church and Cemetery yard, 21 ft N. and 199 ft W. of the N. entrance of the Church, 48 ft S., 12 ft W. and 3.2 ft lower than the center of the E.-W. rd. at the gate entrance of the cemetery, 14 ft E. of the cor. fence post; 3 ft S. of the S. right-of-way fence; on top of a concrete post; a standard tablet stamped "20 DDB 1966" | 927.756 |
| 11 | 6.1 | UE 20 A, 0.1 mi W. thence 0.5 mi S. of the tablet, near the cor. of secs. 14, 15, 22 and 23, T. 86 N., R. 9 W., 19 ft N., 51 ft W. and 2.7 ft lower than the center of the T-rd. W., on top of the N. end of the round metal culvert; a punched hole, painted "UE 20 A" | 876.72 |
| 12 | 6.4 | UE Centerline bridge, 0.3 mi W. of the cor. of secs. 14, 15, 22 and 23, T. 86 N., R. 9 W., in the center of the wooden bridge; a rail spike, painted "UE CL" | 854.3 |
| 13 | 7.1 | UE 20 B, 0.5 mi S. thence 1.1 mi W. of the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 86 N., R. 9 W., 23 ft S., 40 ft W. and 3.7 ft lower than the center of Hwy. 101 and the E.-W. gravel rd. crossing, on top and on the S. end of the round concrete culvert; a chiseled square, painted "UE 20 B" | 917.06 |
| 14 | 8.1 | UE 20 C, 0.5 mi S. thence 2.1 mi W. along the dirt and gravel rd. from the tablet; near the cor. of secs. 16, 17, 20 and 21, T. 86 N., R. 9 W., 33 ft S., 33 ft E. and 2.8 ft lower than the center of the crossroads; on the N. side of a power pole, a rail spike painted "UE 20 C" | 931.22 |
| 15 | 9.1 | UE 20 D, 0.5 mi S. thence 3.0 mi W. along the dirt and gravel rd. from the tablet, near the cor. of secs. 17, 18, 19 and 20, T. 86 N., R. 9 W., 32 ft S., 31 ft W. and 2 ft lower than the center of the crossroads, on N. side of powerline bracing pole, painted "UE 20-D" | 901.82 |

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SHELLSBURG QUADRANGLE
143 - Iowa

LINE 4 (Cont'd)

WINTHROP NO. 2 QUAD. 168 Feet

- 3 16 9.6 UE 20 E, 0.2 mi S. thence 3.5 mi W. along the dirt and gravel rd. from the tablet, near the quarter cor. between secs. 18 and 19, T. 86 N., R. 9 W., 25 ft N., 13 ft W. and 3.6 ft lower than the center of the T-rd. S., on top and on the W. end of a round metal culvert; a punched hole, painted "UE 20 E" 900.55
- 17 10.0 UE 20 Centerline, about 0.1 mi E. along the dirt and gravel rd. from the cor. of secs. 13, 18, 19 and 24, T. 86 N., Rs. 9 and 10 W., in the center of the wooden bridge; a copper nail and washer, painted "UE 20 CL" 875.24
- 18 10.5 Urban, 2.0 mi N. and 4.6 mi W. of, near the quarter cor. between secs. 13 and 24, T. 86 N., R. 10 W., 34 ft N., 31 ft W. and 2.3 ft lower than the center of the crossroads, 4 ft E. of the cor. fence post, on top of a concrete post; a standard tablet stamped "21 DDB 1966" 901.350
- 19 10.6 Reference mark, 65 ft S. of the tablet, 30 ft S. and 19 ft W. of the center of the crossroads, on top and on the W. end of the round metal culvert, a punched hole, painted "RM" 900.68
- 20 11.5 UE 21 A, 1.0 mi W. along the dirt and gravel rd. from the tablet, near the quarter cor. between secs. 14 and 23, T. 86 N., R. 10 W., 18 ft N. and 0.9 ft lower than the center of the rd., on top and on the most westerly concrete round culvert; a chiseled square, painted "UE 21 A" 844.86
- 21 12.1 UE 21 B, 1.5 mi W. along the dirt and gravel rd. from the tablet, near the cor. of secs. 14, 15, 22 and 23, T. 86 N., R. 10 W., 20 ft S., 40 ft E. and 3.6 ft lower than the center of Hwy. Q and the E.-W. rd. crossing, on top of the S. end of the round concrete culvert; a chiseled square, painted "UE 21 B" 816.81
- 22 12.8 UE 21 C Centerline, 2.2 mi W. along the dirt and gravel rd. from the tablet, about 0.3 mi W. along the rd. from the cor. of secs. 15, 16, 21 and 22, T. 86 N., R. 10 W., at the center of the iron and wooden bridge over Bear Creek, a copper nail and washer, painted "UE 21 C CL" 800.72
- 23 13.1 UE 21 D, 2.5 mi W. along the dirt and gravel rd. from the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 86 N., R. 10 W., 25 ft N., 27 ft W. and 3.6 ft lower than the center of the crossroads, on top and on the E. end of the round metal culvert; a punched hole, painted "UE 21 D" 838.33

LA PORTE QUAD. 169

- 24 13.5 T. 86 N., R. 10 W., just SE. of the quarter cor. between secs. 16 and 21, 73 ft S. and 110 ft E. of center of crossroads, 20 ft SSE. of the telephone pole, 4 ft E. of witness post; a standard USGS tablet stamped "ET 6 DOS 1966 892" set in a concrete post flush with the ground. Note: RM not feasible 891.955

VINTON QUAD. 144

- 25 14.1 UE T A, 0.6 mi S. along the dirt and gravel rd. from the tablet, near the center of sec. 21, T. 86 N., R. 10 W., 77 ft N., 11 ft E. and 1.2 ft higher than the center of the concrete bridge over Bear Creek, on top and on the N. end of the E. concrete railing; a chiseled square, painted "UE T A" 798.89

LINE 4 (Cont'd)

VINTON QUAD. 144

Feet

3 26	14.6	UE TT A, 1.0 mi S. along the rd. from the tablet, near the quarter cor. between secs. 21 and 28, T. 86 N., R. 10 W., 23 ft N., 35 ft E. and 2 ft lower than the center of the crossroads, on top and on the N. end of a round metal culvert; a punched hole, painted "UE TT A"	796.62
27	15.7	UE TT B, 2.1 mi S. along the rd. from the tablet, near the quarter cor. between secs. 28 and 33, T. 86 N., R. 10 W., 32 ft N., 120 ft W. and 4.3 ft lower than the center of State Hwy. 101 at the Y-rd. NW. at the E. entrance to the concrete block building; on the S. side of the concrete walk; a chiseled square, painted "UE TT A" (probably erroneously painted)	834.64
28	16.4	At the Vinton airport, located in the NW $\frac{1}{4}$ sec. 33, T. 86 N., R. 10 W., 108 ft NW. of the NW. cor. of the main hangar, on the SW. cor. of the concrete foundation of the gas pumps, a standard tablet stamped "22 DDB 1966"	840.056
30	16.4	Reference mark, 149 ft SE. of the tablet, 12 ft S. of the SW. cor. of the main hangar, at the NW. cor. of the search light tower, a chiseled square	838.20
31	16.8	UE 22 A, about 0.4 mi E.-S. from the tablet, near the S. sixteenth cor. of sec. 33, T. 86 N., R. 10 W., 27 ft N., 42 ft W. and 3.1 ft lower than the center of State Hwy. 101, at the T-rd. W., on top of the N. end of a round metal culvert; a punched hole, painted "UE 22 A"	809.89
32	17.1	Vinton, 3.0 mi N. of, near the quarter cor. between secs. 4 and 33, Tps. 85 and 86 N., R. 10 W., 16 ft S., 46 ft E. and 1.6 ft lower than the center of the T-rd. E., on top and near the center of the southerly headwall of the concrete box culvert; a standard tablet stamped "23 DDB 1966"	805.181
33	17.1	Reference mark, 104 ft WNW. of the tablet, 1 ft N. and 56 ft W. of the center of the T-rd. E., on top and at the S. end of the round metal culvert; a punched hole	802.24
34	18.2	UE 23 A, 1.1 mi S. along State Hwy. 101 from the tablet, near the center of sec. 9, T. 85 N., R. 10 W., 17 ft S., 61 ft W. and 3.1 ft lower than the center of the Hwy. at the T-rd. W., on the N. side of a power pole, a rail spike, painted "UE 23 A"	781.46
35	19.0	UE 23 B, 1.9 mi S. along State Hwy. 101 from the tablet, in the SW $\frac{1}{4}$ sec. 9, T. 85 N., R. 10 W., 280 ft N., 12 ft E. and 0.7 ft lower than the center of the iron and concrete bridge over a lake; 265 ft S. of the T-rd. E., on top and at the N. end of the E. concrete bridge abutment; a chiseled square, painted "UE 23-B"	791.40
36	19.8	UE 23 C, 2.7 mi S. along State Hwy. 101 from the tablet, about 0.2 mi N. of Vinton, at the NE. cor. of the E. concrete railing of the bridge over Cedar River; a chiseled square, painted "UE 23 C"	784.26
37	20.2	At Vinton, at the front (S.) entrance to the County Courthouse and in the NE. cor. of the sandstone step; a US&GS standard disk stamped "794.670 M 81 1934"	794.670