

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

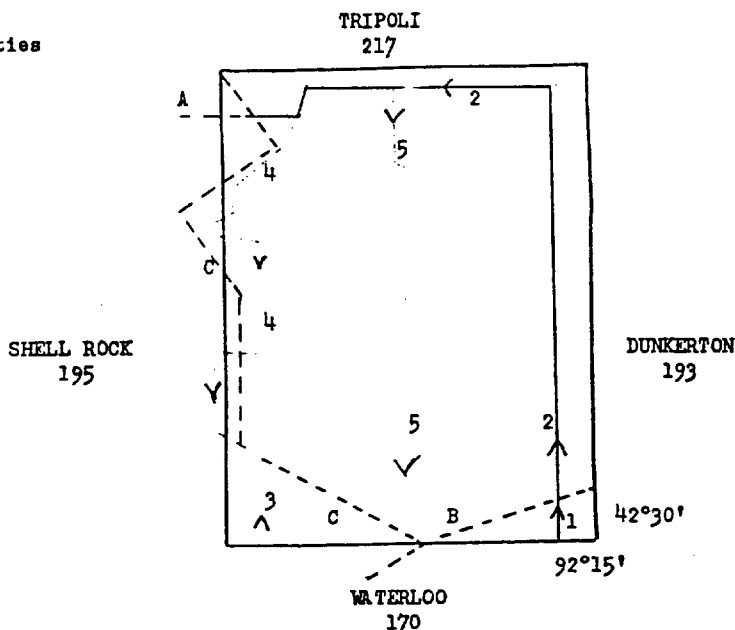
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CEDAR FALLS QUADRANGLE
194 - IOWA
N4230-W9215/15

Bremer and Blackhawk Counties

Edition of 9/21/87

PR: AH:vdc



USC&GS LEVEL LINES

- A. Marathon to Waverly, Iowa, 1934; Second Order; Line No. 46
- B. Prairie City, Iowa to Prairie du Chien, Wisconsin, 1933; First Order; Line 70
- C. Waterloo, Iowa to Lyle, Minnesota, 1934; Second Order; Line No. 89

LINE 1

Feet

NORTH IN SOUTHEAST PORTION OF QUADRANGLE (R.S. Heglin, 1961; CV 1382)

WATERLOO QUAD. - 170

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|----|-----|--|---------|
| 19 | 7.0 | Reference mark, 105 ft SW. of tablet; 47 ft S., and 31 ft W. of RR. crossing; RR. spike in powerline pole; painted "RM 856.8" | 856.69 |
| | 7.0 | Elk Run Heights, 0.2 mi N. of; T. 89 N., R. 12 W., near S. sixteenth cor. between secs. 33 and 34; 40 ft N., 31 ft E. and 1.4 ft higher than RR. crossing; in concrete post standard tablet stamped "2 RSH 1961 860" | 859.699 |
| 10 | 7.8 | UE 2 RSH A, T. 89 N., R. 12 W., cor. secs. 27, 28, 33 and 34; 19 ft N., 16 ft W. and 0.8 ft lower than crossroads; chiseled square; on concrete culvert; painted "UE 857.3" | 857.20 |

CEDAR FALLS QUAD. - 194

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|----|-----|--|---------|
| 11 | 8.7 | UE 2 RSH B, T. 89 N., R. 12 W., cor. secs. 21, 22, 27 and 28; 32 ft S., 16 ft W. and 1.4 ft higher than crossroads; chiseled square; in concrete culvert headwall; painted "UE 874.8" | 874.68 |
| 12 | 9.7 | Dewar, about 2.1 mi SW. along the Chicago Great Western RR. from; about 500 ft SE. of E. Waterloo Township School # 8, 41.5 ft SW. of pole 267+19, 46 ft S. of the center of track and 31 ft E. of the center of a rd. crossing; a standard tablet, stamped "P 11 1933" and set in the top of a concrete post. | 876.652 |

B-194

LINE 2

Feet

NORTH ALONG EAST BORDER, THENCE WEST ALONG NORTH BORDER (R.S. Heglin, 1961; CV 1382)

CEDAR FALLS QUAD. - 194

1	14	0.0	"P 11 1933" (described in Line 1)	876.652
1.1			UE P 11 A, T. 89 N., R. 12 W., cor. secs. 9, 10, 15 and 16; 34 ft S., 34 ft E. and 3.7 ft lower than crossroads; RR. spike in powerline pole; painted "UE 940.7"	940.72
15	2.2		UE P 11 B, T. 89 N., R. 12 W., near S. sixteenth cor. between secs. 3 and 4; 240 ft N., 35 ft E. and 5.0 ft lower than rd. at drive E., RR. spike; in powerline pole; painted "UE 940.0"	939.99
16	3.0		Reference mark, 335 ft S. of tablet; 40 ft S., 33 ft E. and 0.8 ft higher than crossroads chiseled square in boulder top; painted "RM 948.5"	948.51
18	3.1		Dunkerton, 1.0 mi S. and 5.0 mi W. of; T. 89 & 90 N., R. 12 W., near cor. secs. 3, 4, 33 and 34; 289 ft N. and 33 ft W. of crossroads; 1 ft E. of right-of-way fence; in a concrete post; a standard tablet stamped "TT 4 MWL 1961 941"	941.491
19	4.1		UE 4 MWL A, T. 90 N., R. 12 W., cor. secs. 27, 28, 33 and 34; 36 ft N., 37 ft W. and 1.5 ft lower than crossroads RR. spike in powerline pole; painted "UE 925.2"	925.25
20	5.1		UE 4 MWL B, T. 90 N., R. 12 W., cor. secs. 21, 22, 27 and 28; 32 ft S., 34 ft W. and 2.0 ft lower than crossroads; RR. spike in powerline pole; painted "UE 968.6"	968.64
21	6.1		Reference mark, 106 ft S., and 63 ft W. of tablet; 18 ft S., 28 ft W. and 0.4 ft higher than crossroad a chiseled square; in concrete culvert headwall; painted "RM 980.0"	979.97
	6.1		Dunkerton, 2.0 mi N. and 5.0 mi W. of; T. 90 N., R. 12 W., near cor. secs. 15, 16, 21 and 22; 90 ft N. and 32 ft E. of crossroads; 12 ft SSW. of fence corner; in the NW. corner of school yard; in a concrete post; a standard tablet stamped "TT 3 MWL 1961 976"	976.304
22	7.1		UE 3 MWL A, T. 90 N., R. 12 W., cor. secs. 9, 10, 15 and 16; 36 ft S., 12 ft W. and 0.1 ft lower than crossroads; chiseled square; in concrete culvert headwall; painted "UE 967.0"	966.98
23	8.1		UE 3 MWL B, T. 90 N., R. 12 W., cor. secs. 3, 4, 9 and 10; 95 ft N., 13 ft W. and 1.2 ft lower than crossroads; chiseled square in concrete culvert headwall; painted "UE 971.3"	971.27
24	8.4		Dunkerton, 4.25 mi N. and 5.0 mi W. of; T. 90 N., R. 12 W., near S. sixteenth cor. between secs. 3 and 4; 239 ft N. and 28 ft E. of center of rd. at fence E.-W.; in a concrete post; a standard tablet stamped "TT 2 MWL 1961 985"	984.554
	8.4		Reference mark, 235 ft N. and 67 ft W. of tablet; 360 ft S., 35 ft W. and 0.6 ft lower than rd. at drive E.; RR. spike in powerline pole; painted "RM 980.5"	980.53
25	9.0		UE 2 MWL A, T. 90 & 91 N., R. 12 W., near cor. secs. 3, 4, 33 and 34; 84 ft S., 10 ft W. and 0.8 ft higher than center of bridge; chiseled square in S. end of W. curb of bridge; painted "UE 981.4" Water 13.7 ft lower than UE	981.35
26	10.0		UE 2 MWL B, T. 91 N., R. 12 W., cor. secs. 27, 28, 33 and 34; 43 ft N., 34 ft W. and 4.2 ft lower than crossroads; RR. spike in powerline pole; painted "UE 972.2"	972.22
27	10.8		Readlyn, 2.5 mi S. and 1.5 mi W. of; T. 91 N., R. 12 W., near N. sixteenth cor. between secs. 27 and 28; 1 ft N. and 36 ft W. of center of rd. at E.-W. fence; in a concrete post; a standard tablet stamped "TT 1 MWL 1961 980"	980.073
	10.8		Reference mark, 290 ft N. of tablet; 290 ft N., and 32 ft W. of rd. at fence E.-W.; RR. spike in powerline pole; painted "RM 982.1"	982.09

LINE 2 (Cont'd)		CEDAR FALLS QUAD. - 194	Feet
1 29	12.0	UE 1 MWL A, T. 91 N., R. 12 W., at cor. secs. 15, 16, 21 and 22, 111 ft S., 47 ft W. and 0.1 ft lower than crossroads; RR. spike in powerline pole, painted "UE 1008.6"	1008.61
30	13.0	UE 1 MWL B, T. 91 N., R. 12 W., cor. secs. 9, 10, 15 and 16; 35 ft S., 30 ft W. and 2.3 ft lower than crossroads; RR. spike in powerline pole; painted "UE 997.2"	997.20
31	14.1	Reference mark, 490 ft S. of tablet; 180 ft S., 33 ft E. and 1.8 ft higher than crossroads RR. spike in powerline pole; painted "RM 1015.1"	1015.05
	14.1	Readlyn, 0.75 mi N. and 1.75 mi W. of; T. 91 N., R. 12 W., near cor. secs. 3, 4, 9 and 10; 313 ft N., 48 ft E. of crossroads; 1 ft W. of right-of-way fence; in a concrete post; a standard tablet stamped "TT 5 MWL 1961 1017"	1017.295
32	15.0	UE 5 MWL A, T. 91 & 92 N., R. 12 W., cor. secs. 3, 4, 33 and 34; 34 ft N., 48 ft W. and 3.6 ft lower than crossroads; RR. spike in powerline pole; painted "UE 1028.8"	1028.80
33	16.1	UE 5 MWL B, T. 92 N., R. 12 W., cor. secs. 27, 28, 33 and 34; 37 ft N., 49 ft E. and 3.1 ft lower than crossroads; RR. spike in powerline pole; painted "UE 1039.1"	1039.05
34	17.1	Readlyn, 2.75 mi N. and 2.75 mi W. of; T. 92 N., R. 12 W., near cor. secs. 28, 29, 32 and 33; 33 ft S. and 134 ft W. of T-rd. N. 1 ft S. of right-of-way fence; in concrete post standard tablet stamped "TT 6 MWL 1961"	997.784
	17.1	Reference mark, 295 ft NW. of tablet; 11 ft N., 43 ft E. and 0.6 ft higher than center of bridge; RR. spike in end of post supporting retaining wall, painted "RM 999.4"	999.45
36	18.1	UE 6 MWL A, T. 92 N., R. 12 W., near cor. secs. 29, 30, 31 and 32; 35 ft N., 43 ft E. and same elev. as crossroads; RR. spike in powerline pole; painted "UE 1021.9"	1021.94
37	19.1	UE 6 MWL B, T. 92 N., R. 12 & 13 W., near cor. secs. 25, 30, 31 and 36; 34 ft N., 34 ft E. and 1.5 ft lower than crossroads; RR. spike in power line pole; painted "UE 1045.0"	1044.99
38	20.1	Reference mark, 218 ft W. of tablet; 32 ft N., 55 ft E. and 0.1 ft higher than crossroads, RR. spike in powerline pole; painted "RM 1025.1"	1025.11
	20.1	Denver, 4.5 mi N. of; T. 92 N., R. 13 W., near cor. secs. 25, 26, 35 and 36; 35 ft N., 163 ft W. and 3.6 ft lower than crossroads; in concrete post; projecting 8-in. above ground, a standard tablet stamped "3 RSH 1961 1022"	1021.560
39	21.2	UE 3 RSH A, T. 92 N., R. 13 W., near cor. secs. 26, 27, 34 and 35; 8 ft N and same elev. as center of bridge; in concrete deck of bridge a chiseled square; painted "UE 979.5" Water 9.0 ft lower than UE	979.54
40	21.6	UE 3 RSH B, T. 92 N., R. 13 W., near $\frac{1}{4}$ cor. between secs. 27 and 34; 34 ft S., 30 ft E. and 3.7 ft lower than crossroads; RR. spike in powerline pole; painted "UE 1015.9"	1015.90
41	22.7	Reference mark, 280 ft NE. of tablet; 31 ft S., 75 ft E. and 3.2 ft lower than pole painted "RM 993.5"	993.48
	22.7	Denver, 5.0 mi N. and 2.5 mi W. of; T. 92 N., R. 13 W., near $\frac{1}{4}$ cor. between secs. 28 and 33; 291 ft S., and 41 ft W. of crossroads; in a concrete post; a standard tablet stamped "TT 6 JSC 1961 991"	991.464
43	23.4	UE 6 JSC A, T. 92 N., R. 13 W., near E. sixteenth cor. between secs. 29 and 32; 27 ft S., 70 ft W. and 2.3 ft lower than rd. at drive N.; RR. spike in powerline pole; painted "UE 992.4"	992.39
44	24.5	UE 6 JSC B, T. 92 N., R. 13 W., near N. sixteenth cor. between secs. 31 and 32; 15 ft N., 24 ft E. of center of bridge; 15 ft N., 280 ft W. and 0.6 ft lower than crossroads; chiseled square; on NE. wingwall; painted "UE 967.6" Water 8.0 ft lower than UE	967.64

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CEDAR FALLS QUADRANGLE
194 & IOWA

LINE 2 (Cont'd)

CEDAR FALLS QUAD. - 194

Feet

- 1 45 25.5 Waverly, 0.5 mi N. and 1.0 mi E. of; T. 92 N., R. 13 & 14 W., near N. sixteenth cor. between secs. 31 and 36; 47 ft S. and 94 ft W. of E.-W. rd. at extended center of T-rd. N., 47 ft S., 6 ft W. and 3.2 ft lower than center of rd. at fence S. in concrete post; projecting 2-in. above ground; a standard tablet stamped "4 RSH 1961 1003" 1003.372
- 25.5 Reference mark, 258 ft W. of tablet; 48 ft S. and 28 ft W. of rd. at drive S.; RR. spike in powerline pole; painted "RM 1000.4" 1000.43
- 46 26.5 UE 4 RSH A, T. 92 N., R. 14 W., near center of W. $\frac{1}{2}$ sec. 36; 37 ft S., 48 ft E. and 2.3 ft lower than rd. at drive W. on rd. crest; RR. spike; in powerline pole; painted "UE" 988.84
- 47 27.4 UE 4 RSH B, Waverly, 20 ft N., 16 ft W. and 0.6 ft lower than 7th Street NE. and 2nd Ave. NE.; RR. spike in powerline pole; painted "UE 976.5" 976.52
- 48 27.9 UE 4 RSH C, Waverly, 18 ft S., 6 ft W. and 0.6 ft lower than center of W. end of Chicago and Great Western RR. bridge over Cedar River; chiseled square; on top of S. wingwall painted "UE 921.3" Water elev. 904.7 921.24
- 49 28.2 Waverly, about 110 yds. NW. of the NW. corner of the Chicago Great Western RR. station, at the corner of Third Street NE. and First Ave. NE. in the NE. corner of the city reservoir lot, 17.2 ft E. of the NE. corner, 35 ft S. of the center of 1st Ave. NE., and 32 ft W. of the center of 3rd St. NE. a standard disk stamped "WAVERLY 1994" and set in the top of a concrete post projecting about 2-in. above ground 918.522

LINE 3

NORTH ALONG SOUTH PORTION OF WEST BORDER (R.S. Heglin, 1961; CV 1382)

WATERLOO QUAD. - 170

- 2 60 8.6 UE 12 RSH B, T. 89 N., R. 14 W., near cor. secs. 21, 22, 27 and 28; 5 ft N., 35 ft E. and 2.8 ft higher than rd. at fence W.; RR. spike in powerline pole painted "UE 941.2" 941.22
- 61 9.0 Reference mark, 79 ft SE. of tablet; 34 ft S., 27 ft W. and 2.1 ft lower than rd. at drive W.; RR. spike in powerline pole; painted "RM 971.0" 971.04
- 9.0 Hudson, 6.75 mi N. and 2.0 mi W. of; T. 89 N., R. 14 W., near S. sixteenth cor. between secs. 21 and 22; 27 ft N., 28 ft W. of driveway W.; a standard tablet set in a concrete post set flush with ground and stamped "ET 1 JA 1961 972" 971.993
- 62 9.4 UE 1 JA A, T. 89 N., R. 14 W., near cor. secs. 15, 16, 21 and 22; 49 ft N., 33 ft E. and 0.6 ft higher than crossroads; RR. spike in powerline pole painted "UE 960.2" 960.29
- 63 10.4 UE 1 JA B, T. 89 N., R. 14 W., near cor. secs. 9, 10, 15 and 16; 38 ft S., 30 ft E. and 1.5 ft lower than crossroads; RR. spike in powerline pole painted "UE 968.1" 968.17
- 65 11.4 Cedar Falls, 2.0 mi W. of; T. 89 N., R. 14 W., near cor. secs. 3, 4, 9 and 10; 271 ft S. and 35 ft W. of crossroads; 3 ft SE. of a fence corner in a concrete post; a standard tablet stamped "TT 7 MWL 1961 976" Reset 1987 - See Last Page ~~976.310~~
- 11.4 Reference mark, 251 ft NNE. of tablet; 30 ft S., 36 ft E. and 2.8 ft higher than crossroads; RR. spike in powerline pole; painted "RM 972.0" 972.08
- 66 12.3 UE 7 WML A, T. 89 N., R. 14 W., near N. sixteenth cor. between secs. 3 and 4; 76 ft N., 13 ft E. and 0.3 ft lower than center of bridge over RR. tracks; chiseled square in curb of concrete bridge; painted "UE 951.6" 951.67
- 67 12.8 Cedar Falls, about 3.1 mi NW. along the C., R.I. & P. RR. from the station at; 0.2 mi SE. of a house; 675 ft SE. of a RR. signal post; 318 ft SE. of a field rd. crossing; 32 ft E. of a telegraph pole; 45.6 ft NE. of the NE. rail and 1.8 ft SW. of the right-of-way fence, a US&GS standard disk stamped "C 39 1934" set in top of a concrete post projecting about 6-in. above ground 867.295

<u>LINE 4</u>		<u>Feet</u>
SOUTH ALONG WEST BORDER (R.S. Heglin, 1961; CV 1382)		<u>CEDAR FALLS QUAD. - 194</u>
2 69	0.0 "UE 4 RSH C" (described in Line 2)	921.24
0.9	Waverly, 0.4 mi N. of Ill. Central RR. depot, 46 ft N., 48 ft W. and 0.1 ft lower than crossing of C. & GW. RR. and 12th St. NW.; 3 ft SW. of brace pole for powerline pole; in concrete post; projecting 2-in. a standard tablet stamped "5 RSH 1961 920"	920.124
0.9	Reference mark, 475 ft SSE. from tablet; 7 ft S., 6 ft E. and same elev. as center of small concrete bridge; chiseled square; in SE. corner of deck of bridge; painted "RM 919.6"	919.55 DESTROY
70	2.4 Reference mark, 1028 ft N. of tablet; 32 ft N., 20 ft W. and 3.9 ft lower than T-rd. S.; RR. spike in powerline pole; painted "RM 946.0"	946.01
71	2.6 Waverly, 1.25 mi S. and 0.5 mi W. of; T. 91 N., R. 14 W., near center of NW $\frac{1}{4}$ sec. 10; 994 ft S. of a T-rd. S.; 8 ft N. and 33 ft E. of rd. at field entrance E.; in a concrete post; a standard tablet stamped "TT 11 MWL 1961 952"	952.135
72	3.4 UE 11 MWL A, T. 91 N., R. 14 W., near W. sixteenth cor. between secs. 10 and 15; 33 ft N., 32 ft E. and same elev. as T-rd. N.; RR. spike in powerline pole painted "UE 966.6"	966.62
73	3.9 UE 11 MWL B, T. 91 N., R. 14 W., near E. sixteenth cor. between secs. 9 and 16; 31 ft N., 12 ft E. and 2.5 ft lower than center of rd. at SE. right-of-way fence along abandoned RR.; RR. spike in telephone pole; painted "UE 933.3"	933.33
<u>SHELL ROCK QUAD. - 195</u>		
74	5.2 Reference mark, 150 ft E. of tablet; 36 ft N., 12 ft E. and 0.9 ft higher than rd. at field entrance N.; RR. spike in gate post painted "RM 930.1"	930.09
5.2	Waverly, 3.0 mi S. and 2.0 mi W. of; T. 91 N., R. 14 W., near cor. secs. 16, 17, 20 and 21; about 500 ft E. of a T-rd. S.; 36 ft N. and 138 ft W. of rd. at field entrance N.; in a concrete post; a standard tablet stamped "TT 10 MWL 1961 937"	937.045
76	6.3 UE 10 MWL A, T. 91 N., R. 14 W., near center of SE $\frac{1}{4}$ sec. 21; 28 ft N., 16 ft E. and 3.1 ft lower than rd. at curve and at center of three fences E., RR. spike in power line pole painted "UE 922.4"	922.40
<u>CEDAR FALLS QUAD. - 194</u>		
77	7.3 UE 10 MWL B, T. 91 N., R. 14 W., near $\frac{1}{4}$ cor. between secs. 27 and 28; 53 ft S., 48 ft W. and 3.5 ft higher than T-rd. W.; RR. spike in power line pole painted "UE 911.9"	911.95
78	7.9 Waverly, 5.0 mi S. and 1.0 mi W. of; T. 91 N., R. 14 W., near cor. secs. 27, 28, 33 and 34; 140 ft S., and 49 ft W. of T-rd. W.; 1 ft E. of a power pole; in a concrete post; a standard tablet stamped "TT 9 MWL 1961 897"	897.152
7.9	Reference mark, 183 ft S. of tablet; 185 ft N., 49 ft W. and 7.6 ft higher than rd. at drive E.; RR. spike in power line pole; painted "RM 898.6"	898.60
<u>SHELL ROCK QUAD. - 195</u>		
3 2	9.0 UE 9 MWL A, T. 90 & 91 N., R. 14 W., near E. sixteenth cor. between secs. 4 and 33; 9 ft W. and 1.3 ft lower than center of steel bridge; steel rivet head on top of center pier; painted "UE 879.4" Water 13.2 ft	879.4
3	10.2 Reference mark, 110 ft NE. of tablet; 51 ft N., 43 ft E. and 7.5 ft lower than RR. crossing; RR. spike in telephone pole; painted "RM 884.9"	884.94

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CEDAR FALLS QUADRANGLE
194 - IOWA

LINE 4 (Cont'd)

SHELL ROCK QUAD. - 195

Feet

- 3 3 10.2 Janesville, 1.0 mi S. and 2.0 mi W. of; T. 90 N., R. 14 W., near $\frac{1}{4}$ cor. between secs. 4 and 9; 31 ft S. and 31 ft W. of RR. crossing; 4 ft W. of a telephone pole; in a concrete post; a standard tablet stamped "TT 8 MWL 1961 893" 893.452
- 4 11.4 UE 8 MWL A, T. 90 N., R. 14 W., near W. sixteenth cor. between secs. 9 and 16; 42 ft N., 33 ft E. and 3.1 ft higher than crossroad; RR. spike in power line pole; painted "UE 935.8" 935.80
- 5 12.4 UE 8 MWL B, T. 90 N., R. 14 W., near cor. secs. 16, 17, 20 and 21; 16 ft S., 35 ft W. and 0.2 ft lower than N.-S. rd. at offset rd. W.; chiseled square on headwall of concrete culvert; painted "UE 900.4" 900.44
- 6 13.4 UE 8 MWL C, T. 90 N., R. 14 W., near cor. secs. 20, 21, 28 and 29; 54 ft S., 49 ft W. and 0.8 ft lower than rd. at fence W.; RR. spike in power line pole; painted "UE 882.7" 882.75
- 7 14.2 Cedar Falls, 2.25 mi N. and 2.75 mi W. of; T. 90 N., R. 14 W., near center of SW $\frac{1}{4}$ sec. 28; on the NW. wingwall of bridge over small creek; a standard USC&GS and Iowa Geodetic Survey tablet NOTE: Tablet has no stamping (elev. by U.S.G.S.) 877.457
- 14.2 Reference mark, 252 ft S. of tablet; 125 ft S., 12 ft W. and 0.3 ft higher than center of bridge; chiseled square in concrete curbing at SW. corner of bridge; painted "RM 877.4" 877.39

CEDAR FALLS QUAD. - 194

- 8 15.0 UE USC&GS & State Survey tablet A, T. 90 N., R. 14 W., near the center of the E. $\frac{1}{2}$ sec. 33; 243 ft NW. along rd., 50 ft SW. and 1.2 ft lower than center of rd. at short fence SW. which forks at a tree; RR. spike in power line pole; painted "UE 874.4" 874.46
- 9 15.7 "C 39 1934" (described in Line 3) 867.295

LINE 5

SOUTH THRU CENTER OF QUAD. (R.S. Heglin, 1961; CV 1382)

CEDAR FALLS QUAD. - 194

- 12 0.0 "TT 6 JSC 1961" (described in Line 2) 991.464
- 1.0 UE 6 JSC A, T. 91 & 92 N., R. 13 W., near $\frac{1}{4}$ cor. between secs. 4 and 33; ~~338~~ 338 ft S., 16 ft E. and 3.1 ft lower than crossroads; chiseled square on headwall of concrete culvert painted "UE 963.6" 963.65
- 13 2.0 UE 6 JSC B, T. 91 N., R. 13 W., near $\frac{1}{4}$ cor. between secs. 4 and 9; 59 ft N., 39 ft E. and 5.6 ft lower than crossroads; RR. spike in power line pole; painted "UE 952.9" 952.95
- 14 3.0 UE 6 JSC C, T. 91 N., R. 13 W., near E. sixteenth cor. between secs. 9 and 16; 61 ft S., 25 ft E. and 0.8 ft higher than P.I. of rd. N.-W. at rd. fork; chiseled square in concrete culvert headwall; painted "UE 956.3" 956.33
- 15 3.7 Reference mark, 349 ft N. and 64 ft W. of tablet; 12 ft S., 34 ft W. and 0.6 ft higher than Yrd. S.; RR. spike in power line pole; painted "RM 1005.0" 1005.05
- 3.7 Denver, 1.75 mi N. and 2.0 mi W. of; T. 91 N., R. 13 W., near the N. sixteenth cor. between secs. 15 and 16; 361 ft S. and 30 ft E. of center of Y-rd. S.; in concrete post; a standard tablet stamped "TT 5 JSC 1961 1003" 1003.082
- 16 4.3 UE 5 JSC A, T. 91 N., R. 13 W., near cor. secs. 15, 16, 21 and 22; 31 ft N., 22 ft E. and 0.8 ft higher than T-rd. W.; RR. spike in pole painted "UE 997.5" 997.50
- 18 5.3 UE 5 JSC B, T. 91 N., R. 13 W., near cor. secs. 21, 22, 27 and 28; 34 ft N., 34 ft E. and 4.7 ft lower than T-rd. N.; chiseled square on top of concrete culvert headwall painted "UE 953.4" 953.47

LINE 5 (Cont'd)

CEDAR FALLS QUAD. -194

Feet

- 3 19 6.0 UE 5 JSC C, T. 91 N., R. 13 W., near S. sixteenth cor. between secs. 27 and 28; 141 ft S., 51 ft E. and 1.4 ft lower than N.-S. rd. in line with rd. E.; RR. spike in telephone pole painted "UE 938.2" 938.26
- 21 7.3 Denver, 2.0 mi S. and 2.0 mi W. of; T. 90 & 91 N., R. 13 W., near the cor. secs. 3, 4, 33 and 34; 250 ft N. and 48 ft W. of center of crossroads; in a concrete post, a standard tablet stamped "TT 4 JSC 1961 993" 933.111
- 7.3 Reference mark, 196 ft SE. of tablet; 79 ft N., 49 ft E. and 5.2 ft lower than crossroads RR. spike in power line pole; painted "RM 935.0" 934.02
- 22 8.2 UE 4 JSC A, T. 90 N., R. 13 W., near cor. secs. 3, 4, 9 and 10; 33 ft S., 27 ft W. and 1.2 ft lower than crossroads; RR. spike in power line pole painted "UE 981.2" 981.28
- 23 9.2 UE 4 JSC B, T. 90 N., R. 13 W., near cor. secs. 9, 10, 15 and 16; 20 ft N., 19 ft W. and 0.8 ft higher than crossroads; chiseled square on headwall of concrete culvert; painted "UE 957.9" 957.97
- 26 10.3 Reference mark, 65 ft NNW. of tablet; 37 ft N., 39 ft W. and 3.2 ft lower than crossroads; RR. spike in powerline pole painted "RM 925.7" 925.73
- 10.3 Denver, 5.0 mi S. and 2.0 mi W. of; T. 90 N., R. 13 W., near the cor. of secs. 15, 16, 21 and 22; 112 ft S. and 37 ft E. of crossroads; in a concrete post; a standard tablet stamped "TT 3 JSC 1961 931" ~~TO BE DESTROYED~~ CO ENB. 6-13-74 930.961
- 27 11.3 UE 3 JSC A, T. 90 N., R. 13 W., near cor. secs. 21, 22, 27 and 28; 38 ft N., 31 ft E. and 0.8 ft lower than crossroads; RR. spike in power line pole painted "UE 893.4" 893.50
- 28 12.3 UE 3 JSC B, T. 90 N., R. 13 W., near cor. secs. 27, 28, 33 and 34; 36 ft N., 18 ft E. and 0.6 ft lower than crossroads; chiseled square on top of headwall of concrete culvert; painted "UE 870.9" 870.95
- 29 13.3 UE 3 JSC C, T. 89 & 90 N., R. 13 W. near cor. secs. 3, 4, 33 and 34; 217 ft N. and 14 ft E. of crossroad; 24 ft S., 14 ft E. and 2.0 ft higher than center of bridge; chiseled square on concrete headwall; painted "UE 872.3" 872.35
- 30 14.0 Reference mark, 77 ft N. of tablet, 25 ft N., 50 ft E. and 3.1 ft lower than rd. at fence E.; RR. spike in brace post painted "RM 859.6" 859.71
- 14.0 Denver, 9.0 mi S. and 2.0 mi W. of; T. 89 N., R. 13 W., near the S. sixteenth cor. between secs. 3 and 4; 52 ft S. and 50 ft E. of rd. at T-fence E. in a concrete post; a standard tablet stamped "TT 2 JSC 1961 861" 861.099
- 31 14.8 UE 2 JSC A, Waterloo, Hwy. 20 0.2 mi SE. of its junction with Co. Rd. "H", 30 ft NW. along center of bridge; 16 ft normal to hwy. and 0.5 ft higher than center of bridge; head of bolt imbedded in concrete curbing; painted UE 862.2 862.31
- 32 15.9 UE 2 JSC B, Waterloo, 153 ft S. and 0.1 ft lower than Cedar Bend St. at drive E. as N.-S. street curves SE. along Cedar River; 21 ft normal to street at curve; RR. spike in power pole; painted "UE 854.4" 854.45
- 33 16.8 UE 2 JSC C, Waterloo, Copper St. at Sans Souci bridge over Cedar River; 212 ft W., 18 ft S. and 3.0 ft lower than center of bridge; chiseled square in bridge walk way; painted "UE 852.8" Water 14.0 ft 852.92
- 34 17.5 Waterloo, T. 89 N., R. 13 W., near the $\frac{1}{2}$ cor. between secs. 22 and 27; 43 ft N. and 47 ft W. of intersection of Cleveland and Main Streets; 64 ft S. and 58 ft W. of RR. crossing; in a concrete post; a standard tablet stamped "TT 1 JSC 1961 854" 854.500
DESTROYED 10/63 PPB
- 17.5 Reference mark, 155 ft SSE. of tablet; 100 ft S., 18 ft W. and 1.6 ft higher than T-street W.; RR. spike in powerline pole painted "RM 855.5" 855.59

CEDAR FALLS QUADRANGLE
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LINE 5 (Cont'd)

WATERLOO QUAD. - 170

Feet

- 3 35 18.4 UE 1 JSC A, Waterloo at Cleveland St., 0.35 mi S. of its junction with Hwy. 218; 61 ft S., 20 ft W. and 0.3 ft higher than center of bridge over Blackhawk Creek; chiseled square on concrete curbing that continues around end of SW. wingwall; painted "UE 851.6" 851.68
- 96 19.3 UE 1 JSC B, Waterloo, near intersection of Campbell St. and Ansborough Ave., 14 ft N., 60 ft E. and 3.7 ft lower than Campbell St. crossing of C. & GW. RR. tracks; RR. spike in telegraph pole painted "UE 856.3" 856.37

CEDAR FALLS QUADRANGLE
194 IOWA

R E S E T

BM 7 MWL 1961 RESET 1987

BM; CEDAR FALLS, 2.0 MI. W. OF; T. 89 N., R. 14 W., NEAR THE N. 1/16
COR. BETWEEN SECS. 9 and 10, 1200 FT. S. ALONG UNION ROAD FROM THE
INTERSECTION WITH WEST FIRST STREET, SET IN THE HEADWALL OF A CONC.
BOX CULVERT, STD. TABLET STAMPED "7 MWL 1961 RESET 1987"

RESET ELEVATION 947.09 FT.