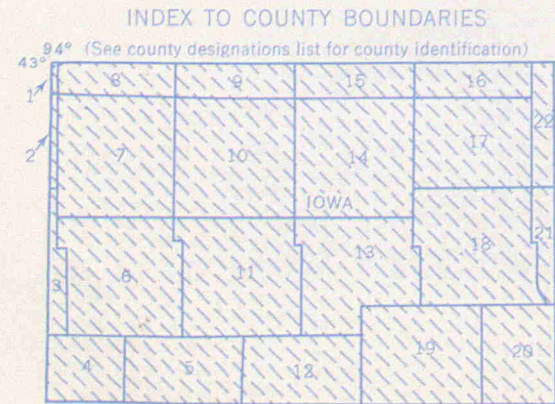


WATERLOO, IOWA (NK 15-5)
FEBRUARY 1964

Base prepared by the Army Map Service (AMS), Corps of Engineers, U. S. Army, Washington, D. C. - Contained in 1953 by photogrammetric methods and by reference to Iowa County Highway Maps, 1950. Control by USGS, USCGS, and CE. Aerial photography 1949-1950. Map field checked, 1954.

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS
— IOWA NORTH



PLANE COORDINATE ZONES
IOWA NORTH

HORIZONTAL CONTROL

- | | |
|---|-----------------------------------|
| Coast & Geodetic Survey | Geological Survey |
| ▲ Monumental Point - First Order | ▲ Monumental Point - Second Order |
| ▲ Monumental Point - Third Order | ○ Located Object - Third Order |
| ○ See separate index for names of numbered stations | |
| Station reported not recovered | |
| Measured Base - Electronic or Taped | |
| Line of triangulation observed from one end only | |
| Measured Length - Electronic or Taped | |
| Theodolite Traverse - Electronic Distance | |
| Transit Traverse - Taped Distance Third Order | |
| Transit Traverse and Leveling Third Order | |

VERTICAL CONTROL

- | | |
|------------------------------------|--------------------------|
| Coast & Geodetic Survey | Geological Survey |
| — First Order | — Second Order |
| — Third Order | — |
- STATE SURVEY CONTROL**
- Horizontal or Vertical

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

TRANSVERSE MERCATOR PROJECTION



- LEGEND**
ROAD DATA 1954
- | | | |
|--------------------------------------|---------------------------------|----------------------------|
| ROADS | RAILROADS | LANDMARKS |
| Two lanes wide, heavy duty | Single track Double or Multiple | School; Church; Other |
| More than two lanes wide | Narrow gauge | Spot elevation in feet |
| Two lanes wide, Federal route marker | Hard surface, medium duty | Marsh or swamp |
| More than two lanes wide | Improved light duty | Intermittent or dry stream |
| Two lanes wide, State route marker | Unimproved dirt | Power line |
| Trail | | |

COAST AND GEODETIC SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION

42 093 4	42 093 1	42 092 4	42 092 1
42 093 3	42 093 2	42 092 3	42 092 2

ORDER CONTROL DATA IN BLACK BY 30 MINUTE QUADRANGLE UNITS FROM DIRECTOR, COAST AND GEODETIC SURVEY, WASHINGTON 25, D.C.

COUNTY DESIGNATIONS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON 25, D.C.

GEOLOGICAL SURVEY FIFTEEN MINUTE QUADRANGLE DESIGNATION

223	222	221	220	219	218	217	216
200	199	198	197	196	195	194	193
176	175	174	173	172	171	170	169
151	150	149	148	147	146	145	144

ORDER CONTROL DATA IN RED BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON 25, D.C.

USCOMM-CGS-DC A 5005

WATERLOO, IOWA (NK 15-5)
FEBRUARY 1964

U. S. DEPT. OF COMMERCE
 COAST AND GEODETIC SURVEY
 WASHINGTON, D. C.
 FORM - 6471 (1-63)
 DATE JUL 1966

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

QUADS 420921-2-3-4 & 420931-2-3-4

Iowa
 LATITUDE 42°00' TO 43°00'
 LONGITUDE 92°00' TO 94°00'
 DIAGRAM NK 15-5 WATERLOO

KEY NO	STATION NAME	QUAD NO	STATION NO
1	VINTON COUNTY COURTHOUSE DOME	420922	1013
1	VINTON IOWA RR AND LIGHT CORP STACK	420922	1016
1	VINTON MUNICIPAL TANK	420922	1017
2	CEDAR FALLS ST TEACHERS COLL STACK	420921	1015
2	CEDAR FALLS ST TEACHERS COLL TOWER	420921	1016
3	WATERLOO ILL CENTRAL RR CO STACK	420921	1028
4	WATERLOO IOWA PUB SERVICE CO NE STACK	420921	1031
4	WATERLOO IOWA PUB SERVICE CO SW STACK	420921	1032
5	WATERLOO JOHN DEERE TRACTOR CO STACK	420921	1029
5	WATERLOO JOHN DEERE TRACTOR CO TANK	420921	1030
6	BENCH MARK D 29	420931	1004
6	HAMPTON	420931	1004
6	HAMPTON COUNTY COURTHOUSE TOWER	420931	1012
6	HAMPTON METHODIST CHURCH STEEPLE	420931	1013
6	HAMPTON WATER TANK	420931	1014
7	ALLISON COURTHOUSE SMALL DOME	420924	1009
7	ALLISON MUNICIPAL WATER TANK	420924	1010
8	GARDEN CITY CHURCH STEEPLE	420932	1012
8	GARDEN CITY LARGE CHIMNEY	420932	1013
8	GARDEN CITY N ELEVATOR WEST GABLE	420932	1014
8	GARDEN CITY S ELEVATOR WEST GABLE	420932	1015

KEY NO	STATION NAME	QUAD NO	STATION NO
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