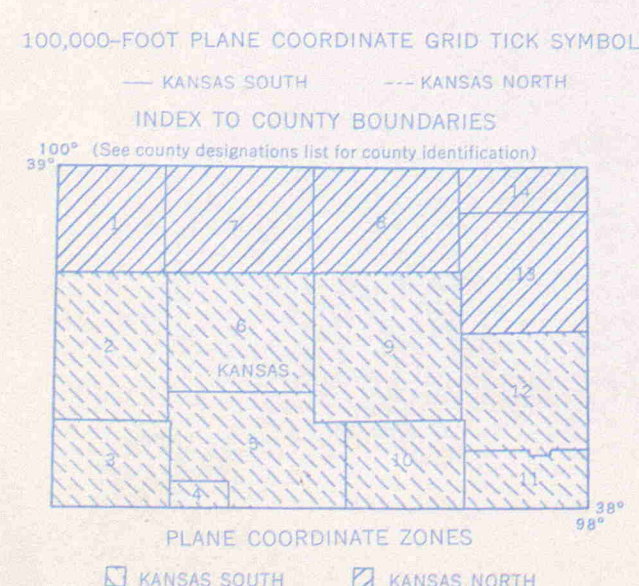


Base prepared by the Army Map Service (ASPM), Corps of Engineers, U. S. Army, Washington, D. C., compiled in 1956 by photogrammetric methods. Horizontal and vertical control by USGS, USGS-65, and GE. Aerial photography 1954. Photography field annotated 1955.



**HORIZONTAL CONTROL**

**Coast & Geodetic Survey**

- Monumented Point - First Order
- Monumented Point - Second Order
- Monumented 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
- Line of triangulation observed from one end only
- Measured Length - Electronic or Taped
- Theodolite Traverse - Electronic Distance
- Transit Traverse - Tape Distance Third Order
- Transit Traverse and Leveling Third Order

**Geological Survey**

- Monumented Point - First Order
- Monumented Point - Second Order
- Monumented 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
- Line of triangulation observed from one end only
- Measured Length - Electronic or Taped
- Theodolite Traverse - Electronic Distance
- Transit Traverse - Tape Distance Third Order
- Transit Traverse and Leveling Third Order

**VERTICAL CONTROL**

**Coast & Geodetic Survey**

- First Order
- Second Order
- Third Order

**Geological Survey**

- First Order
- Second Order
- Third Order

**STATE SURVEY CONTROL**

- Horizontal or Vertical

Scale 1:250,000

0 5 10 15 20 25 30 Statute Miles

0 5 10 15 20 25 30 Kilometers

**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**

TOWNSHIP OR RANGE LINE

LAND GRANT BOUNDARY

**LEGEND**

ROAD DATA 1955

ROADS: Hard surface, heavy duty; More than two lanes wide; Two lanes wide; Federal route marker; Hard surface, medium duty; More than two lanes wide; Two lanes wide; State route marker; Improved light duty; Unimproved dirt; Trail.

RAILROADS: Standard gauge; Single track Double or Multiple track; Narrow gauge.

BOUNDARIES: International; State; County; Park or reservation.

LANDMARKS: School; Church; Other; Spot elevation in feet; Spot elevation in meters; Marsh or swamp; Intermittent or dry stream; Power line.

**COAST AND GEODETIC SURVEY**

THIRTY MINUTE QUADRANGLE DESIGNATION

**INDEX TO COUNTY BOUNDARIES**

38 099 4	38 099 1	38 098 4	38 098 1
38 099 3	38 099 2	38 098 3	38 098 2

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

**GEOLOGICAL SURVEY**

FIFTEEN MINUTE QUADRANGLE DESIGNATION

**INDEX TO COUNTY BOUNDARIES**

239	238	237	236	235	234	233	232
208	207	206	205	204	203	202	201
177	176	175	174	173	172	171	170
146	145	144	143	142	141	140	139

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

USGCM 655 DC A-1516

GREAT BEND, KANSAS (N 14-5)  
JUNE 1965

U. S. DEPT. OF COMMERCE  
 COAST AND GEODETIC SURVEY  
 WASHINGTON, D. C.  
 FORM - 6471 (1-63)  
 DATE MAR 1967

# INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the  
 Coast and Geodetic Survey

QUADS 380981-2-3-4 & 380991-2-3-4  
 KANS  
 LATITUDE 38°00' TO 39°00'  
 LONGITUDE 98°00' TO 100°00'  
 DIAGRAM NJ 14-5 GREAT BEND

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
1	T19S R7W SEC 24 NW CORNER	380982	1011
2	BUNKER HILL FLOURING MILL IRON CHIMNEY	380984	1015
2	BUNKER HILL METHODIST CHURCH SPIRE	380984	1016
2	BUNKER HILL MUNICIPAL WATER TANK	380984	1017
2	BUNKER HILL SCHOOLHOUSE CUPOLA	380984	1018
2	BUNKER HILL WATER TOWER	380984	1019
2	T13S R12W SEC 31 SW CORNER STONE	380984	1003
3	BUSHTON ELEVATOR	380981	1017
3	BUSHTON GRAIN AND SUPPLY CO ELEVATOR	380981	1018
3	BUSHTON MUNICIPAL WATER TANK	380981	1019
4	ELLSWORTH ASTRONOMICAL STATION	380981	1006
4	ELLSWORTH SCHOOLHOUSE CUPOLA	380981	1022
5	RANSOM GRISTMILL SMOKESTACK	380994	1014
5	RANSOM SCHOOLHOUSE CUPOLA	380994	1016
6	ROZEL UNION CO-OP GRAIN ELEVATOR	380992	1029
7	HAYSPORT 2	380991	1009
8	WALKER SCHOOLHOUSE CUPOLA	380991	1039
9	VICTORIA MUNICIPAL WATER TANK	380991	1035
10	LARNED MUNICIPAL STANDPIPE	380992	1025
10	LARNED MUNICIPAL WATER TANK	380992	1026
11	MC CRACKEN WESTERN P AND L CORP TANK	380994	1013
13	RANSOM MUNICIPAL WATER TANK	380994	1015
14	STERLING COLLEGE TOWER	380982	1023
14	STERLING MICH-WIS PIPELINE CO M W MAST	380982	1024
15	BURDETT METHODIST EPISCOPAL CH SPIRE	380993	1003
16	ELLSWORTH MUNICIPAL WATER TANK	380981	1021
16	ELLSWORTH WATER TOWER POLE	380981	1023
17	NORTHERN NATURAL GAS CO MAST KAC 970	380981	1032
18	KANAPOLIS SALT WORKS CENTER HOIST	380981	1030
19	KANAPOLIS MUNICIPAL WATER TANK	380981	1029
20	ELLSWORTH HOME FOR THE AGED WATER TANK	380981	1020
21	MCROWVE RELAY TWR 6-1/2 MI NE OF ELLSWORTH	380981	1033
22	OLMITZ ST ANNES CATHOLIC CHURCH SPIRE	380984	1026
23	GREAT BEND ST ROSE CATH CH SPIRE	380983	1024
24	RUSSELL MUNICIPAL WATER TANK	380984	1029
25	RUSSELL HIGH SCHOOL CUPOLA POLE	380984	1027
26	LARNED MUNI ELEC LIGHT PLANT BRICK STACK	380992	1024
27	HAYS PRODUCER PIPELINE AND GAS CO TWR	380991	1025
29	HAYS ST JOSEPHS CATHOLIC CHURCH CROSS	380991	1027
30	KANSAS STATE HOSPITAL TALL STACK	380992	1021

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
30	KANSAS STATE HOSPITAL WATER TANK	380992	1022
32	ST PETERS AND PAULS CATH CH BASE CROSS	380992	1030
36	ELLIS SCHOOLHOUSE TOWER	380994	1012