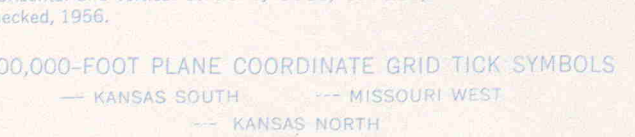


Base prepared by the Army Map Service (CMS), Corps of Engineers, U. S. Army, Washington, D. C. Compiled in 1956 by photogrammetric methods. Horizontal and vertical control by USGS, USC&GS, and CE. Map field checked, 1956.

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS
— KANSAS SOUTH — MISSOURI WEST
— KANSAS NORTH — MISSOURI EAST



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 - Taped Distance Third Order
 - Transit Traverse and Levelling 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 - Taped Distance Third Order
 - Transit Traverse and Levelling Third Order

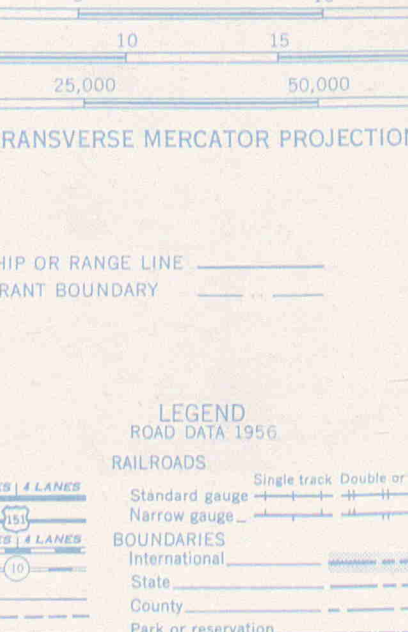
VERTICAL CONTROL

- Coast & Geodetic Survey
 - First Order
 - Second Order
 - Third Order
- Geological Survey
 - First Order
 - Second Order
 - Third Order

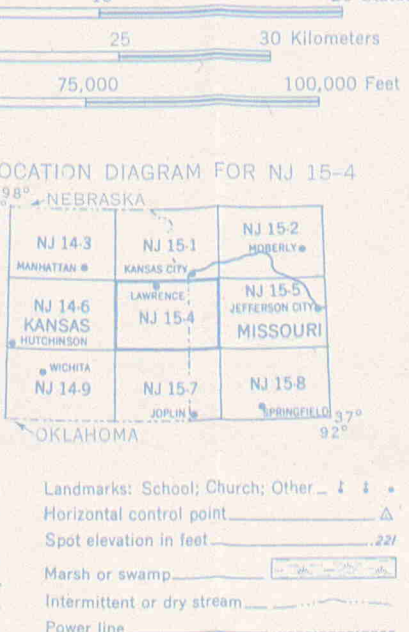
SECTIONIZED TOWNSHIP

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

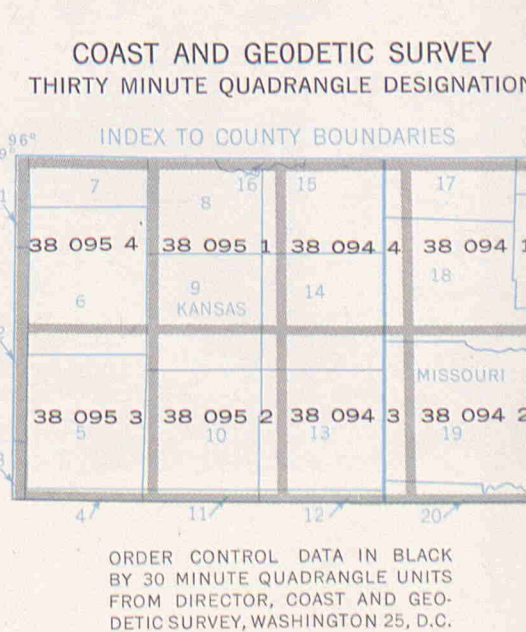
TRANSVERSE MERCATOR PROJECTION



LOCATION DIAGRAM FOR NJ 15-4



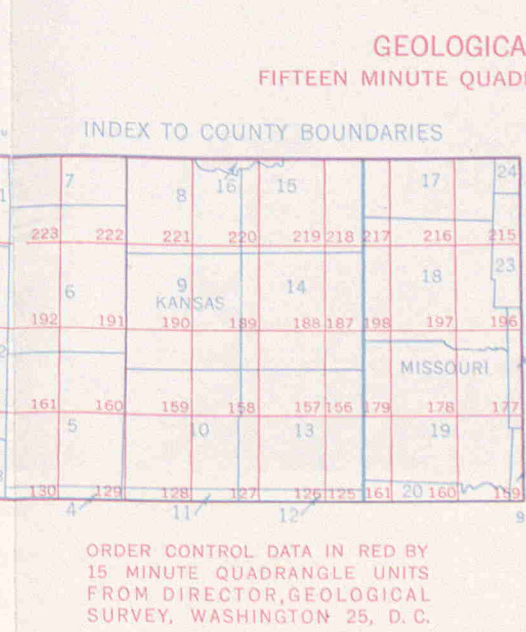
COAST AND GEODETIC SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION



COUNTY DESIGNATIONS

- Washington 13 Lim
- York 14 Algon
- Greenwood 15 Jackson
- Woodson 16 Lawrence
- Colley 17 Jackson
- Osage 18 Clay
- Shawnee 19 Bates
- DeWitt 20 Wayne
- Franklin 21 Scott
- Anderson 22 Henry
- Allen 23 Jackson
- Bourbon 24 Lafayette

GEOLOGICAL SURVEY FIFTEEN MINUTE QUADRANGLE DESIGNATION



LEGEND ROAD DATA 1956

- ROADS: Hard surface, heavy duty; Hard surface, light duty; Improved light duty; Unimproved dirt; Trail
- RAILROADS: Standard gauge; Narrow gauge; International
- BOUNDARIES: State; County
- Park or reservation
- Landmarks: School; Church; Other
- Horizontal control point
- Spot elevation in feet
- Marsh or swamp
- Intermittent or dry stream
- Power line

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

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

LAWRENCE, KANSAS, MISSOURI (NJ 15-4) OCTOBER 1956

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

Page 1
 QUADS 380941-2-3-4 & 380951-2-3-4
 KANS-MO
 LATITUDE 38°00' TO 39°00'
 LONGITUDE 94°00' TO 96°00'
 DIAGRAM NJ 15-4 LAWRENCE

KEY NO.	STATION NAME	QUAD NO.	STATION NO.
1	LEES SUMMIT SOUTH METHODIST CHURCH CUPOLA	380941	1031
2	KANSAS STATE LINE 2 STONE	380944	1051
2	STATE LINE 2	380944	1051
3	MISSOURI KANSAS STATE LINE 1 STONE	380944	1050
4	OLATHE JOHNSON CO COURTHOUSE FLAGSTAFF	380944	1038
4	OLATHE METH EPISCOPAL CHURCH SPIRE	380944	1039
5	HARRISONVILLE MUNICIPAL WATER TANK	380941	1024
5	HARRISONVILLE CASS CO COURTHOUSE CUPOLA	380941	1025
5	HARRISONVILLE CUMBERLAND PRES CHURCH SPIRE	380941	1026
6	MISSOURI KANSAS STATE LINE 3 STONE	380944	1054
7	KANSAS CITY HALE H COOK SCHOOL CHIMNEY	380944	1063
8	KANSAS CITY BLENHEIM SCHOOL STACK	380944	1062
9	KANSAS CITY ST JOHNS SEMINARY CHIMNEY	380944	1067
10	KANSAS CITY HILLCREST COUNTRY CLUB TANK	380944	1064
11	KANSAS CITY INDIAN HILLS SUBDIV TOWER	380944	1065
12	AMARILLO KANSAS CITY AWY BCN 45	380944	1020
13	LEES SUMMIT UNITY SCL OF CHRISTIANITY TWR	380941	1033
14	LEES SUMMIT MUNICIPAL WATER TANK	380941	1030
15	LEES SUMMIT ST POLICE RADIO STA KHPA MAST	380941	1032
16	GARDNER CATHOLIC CHURCH SPIRE	380944	1022
16	GARDNER METHODIST CHURCH SPIRE	380944	1023
17	SPRING HILL METHODIST CHURCH SPIRE	380944	1055
17	SPRING HILL PRESBYTERIAN CHURCH SPIRE	380944	1056
18	OLATHE DEAF AND DUMB ASYLUM NEW CHIMNEY	380944	1035
18	OLATHE HIGH SCHOOL	380944	1036
18	OLATHE STA SCH FOR DEAF PWR PLT STACK	380944	1043
19	LENEKA METHODIST CHURCH SPIRE	380944	1030
19	LENEKA OLD MUNICIPAL WATER TANK	380944	1029
20	BASE 1	380944	1052
21	BASE 2	380944	1053
22	OSAWATOMIE MO PAC TERMINAL POWER STACK	380943	1021
23	OSAWATOMIE STA HOSP POWER PLANT STACK	380944	1044
23	OSAWATOMIE STATE HOSPITAL STANDPIPE	380944	1045
24	LOUISBURG PANHANDLE E PIPELINE CO MAST	380944	1031
25	AMARILLO KC AWY BCN NO 44A	380951	1025
26	LEBO GRANGE CO OP ASSOC GRAIN ELEVATOR	380953	1019
26	LEBO MUNICIPAL WATER TANK	380953	1020
27	PAULINE AZIMUTH MARK	380954	1025
27	PAULINE CULLEN VILLAGE RELAY TOWER	380954	1052
28	AUBURN RURAL WATER DIST 2 WATER TANK	380954	1035

KEY NO.	STATION NAME	QUAD NO.	STATION NO.
29	BURLINGAME CO OP GRAIN ELEVATOR	380954	1036
30	BURLINGAME SCHOOLHOUSE CUPOLA	380954	1038
31	CARBUNDALE SCHOOLHOUSE STONE CUPOLA	380954	1039
32	LAWRENCE WATER TOWER POLE	380951	1036
33	EDGERTON PRESBYTERIAN CHURCH SPIRE	380951	1031
34	LAWRENCE KANSAS STATE UNIV NORTH DOME	380951	1033
34	LAWRENCE UNIV OF KANS HEAT PLANT STACK	380951	1035
35	LYNDON MUNICIPAL WATER TANK	380954	1044
36	OSAGE CITY CATHOLIC CHURCH SPIRE	380954	1047
36	OSAGE CITY MUNICIPAL WATER TANK	380954	1048
37	BURLINGAME MUNICIPAL WATER TANK	380954	1037
38	OTTAWA	380951	1012
38	OTTAWA UNIV POWER PLANT STACK	380951	1041
39	WELDA CITIES SERVICE OIL CO WATER TANK	380952	1032
40	SCIPIO ST BONIFIOUS CHURCH SPIRE	380952	1030
41	OTTAWA KANSAS CITY P AND L CO RADIO MAST	380951	1040
42	HALLS SUMMIT STATION KAC 70 TOWER	380953	1017
43	READING MUNICIPAL WATER TANK	380954	1054
44	MT HERMON EVANG UNITED BPETH CH SPIRE	380954	1045
45	OSAGE CITY RADIO STATION KAF 981 MAST	380954	1049
46	DOVER RURAL WATER DIST 1 STANDPIPE	380954	1040
47	PAULINE CULLEN VILLAGE WATER TANK	380954	1051
48	OTTAWA BENNETT CREAMERY CO STACK	380951	1037
49	GARDNER MUNICIPAL WATER TANK	380944	1025
50	AMARILLO KANSAS CITY AIRWAY BCN NO 40	380954	1034
51	MARTY	380944	1007
51	MARTY HOUSE LIGHTING ROD	380944	1032
51	SECTION LINE 1	380944	1048
51	SECTION LINE 2	380944	1049
52	KANSAS CITY PILEY MEMORIAL WATER TOWER	380944	1066
53	GARNETT STATE HIGHWAY PATROL RADIO MAST	380952	1023
54	GARNETT 2	380952	1004
55	TULSA-KANSAS CITY AIRWAY BEACON NO 16	380952	1001
56	BALDWIN CITY MUNICIPAL WATER TANK 1948	380951	1027
56	BALDWIN CITY MUNICIPAL WATER TANK 1960	380951	1028
57	HARVEYVILLE C A A NAVIGATION AID TOWER	380954	1042
58	WAVERLY MUNICIPAL WATER TANK	380953	1022
59	DENNIS BARN CUPOLA	380944	1021
59	OLATHE NEW MUNICIPAL WATER TANK	380944	1042
60	OLATHE DELCO BATTERY PLANT WATER TANK	380944	1034

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

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

QUADS 380941-2-3-4 & 380951-2-3-4
 KANS-MO
 LATITUDE 38°00' TO 39°00'
 LONGITUDE 94°00' TO 96°00'
 DIAGRAM NJ 15-4 LAWRENCE

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
61	OLATHE MUNICIPAL WATER TANK	380944	1040
62	OLATHE FAA ARTCC MAST	380944	1037
63	GREAT LAKES PIPELINE CO EAST STORAGE TANK	380944	1026
63	GREAT LAKES PIPELINE CO WEST STORAGE TANK	380944	1027
64	LENEXA NEW MUNICIPAL WATER TANK	380944	1028
65	HAPPY	380942	1016
65	HAPPY 2 AZIMUTH MARK	380942	1016
66	DAYTON BELL TELEPHONE MICROWAVE TOWER	380942	1035
67	BUTLER BATES COUNTY COURTHOUSE CLOCK TOWER	380942	1032
67	BUTLER MUNICIPAL WATER TANK	380942	1034
68	ARCHIE MUNICIPAL WATER TANK	380942	1030
69	BENCH MARK Z 252	380942	1031
70	URICH MUNICIPAL WATER TANK	380942	1037
71	JINGO A T AND T MICROWAVE TOWER	380943	1018
72	OTTAWA FIRST BAPTIST CHURCH SPIRE	380951	1039
73	OTTAWA CITY WATER AND LIGHT CO STACK	380951	1038
74	GARDEN CITY MUNICIPAL WATER TANK	380941	1022
75	MELVERN MUNICIPAL WATER TANK	380954	1046

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
---------	--------------	-----------	-------------