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U. S. DEPARTMENT OF COMMERCE Jesse H. Jones. Secretary

COAST AND GEODETIC SURVEY

PLANE COORDINATES ELEVATIONS AND DESCRIPTIONS OF STATIONS

Local Control Survey Projects

Civil Works Administration and Federal Emergency Relief Administration Professor L. E. Conrad Nov. 28, 1933, to Apr. 15, 1934

KANSAS

G-41

Compiled by
New York Computing Office
U. S. Coast and Geodetic Survey
Work Projects Administration
Projects OP-765-97-3-3
OP-65-2-97-46
OP-165-2-97-73

FOREWORD

The data described in the following pages resulted from control survey projects of the Civil Works Administration and the Federal Emergency Relief Administration during the period from November 28, 1933, to April 5, 1934. The work was in charge of Professor L.E. Conrad, Department of Civil Engineering, State Agricultural College, Manhattan, Kansas.

The project was initiated by the United States Coast and Geodetic Survey on November 28, 1933, and remained under the direction of this organization until February 15, 1934. Subsequent to this date the project was sponsored locally in the State.

The leveling was accomplished with a check between established bench marks of 0.05 foot Vdistance in miles or better. The traverse was accomplished with specifications for Second-order accuracy, i.e. a check of 1/10,000 on established stations. Where no elevations or coordinates are given in the descriptions of stations additional field work is necessary to complete the surveys or to obtain proper control and the required accuracy.

The field notes were computed and adjusted to some extent in the State during the life of the project. The final work of this nature, together with the preparation of the manuscript, was done in the New York Computing Office of the U.S. Coast and Geodetic Survey, under Work Projects Administration projects O.P.765-97-3-3, O.P.65-2-97-46, and O.P.165-2-97-73.

The elevations are given in feet based on the Sealevel Datum of 1929.

The stations have been numbered in accordance with their locations in sections, townships, and ranges, and are arranged by lines in that order.

Additional information concerning this work may be obtained by addressing the Director, U.S. Coast and Geodetic Survey, Washington, D.C.

Kansas Geodetic Survey

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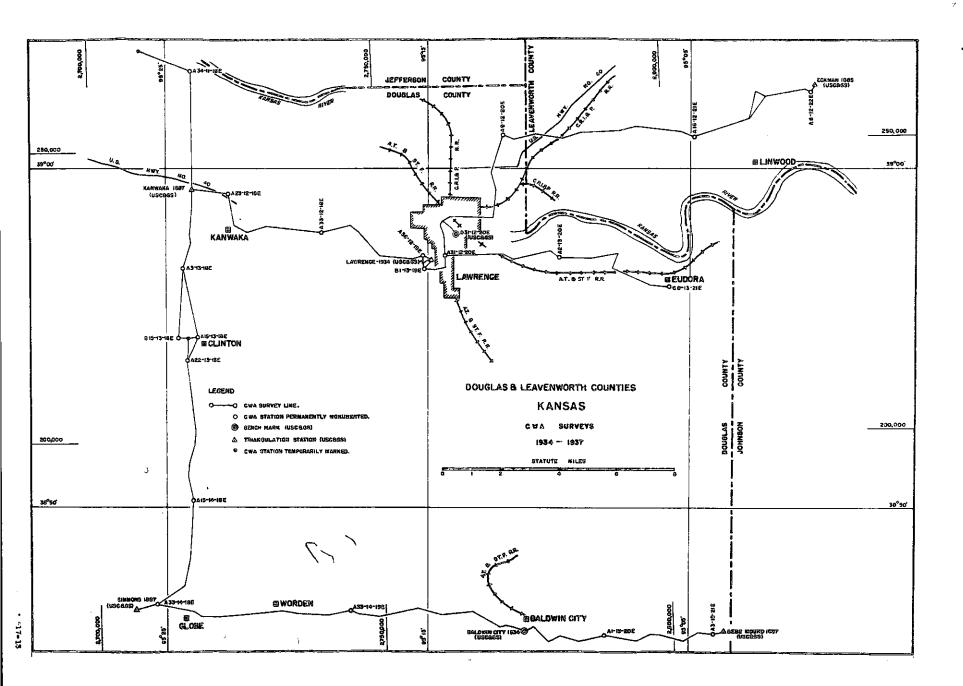
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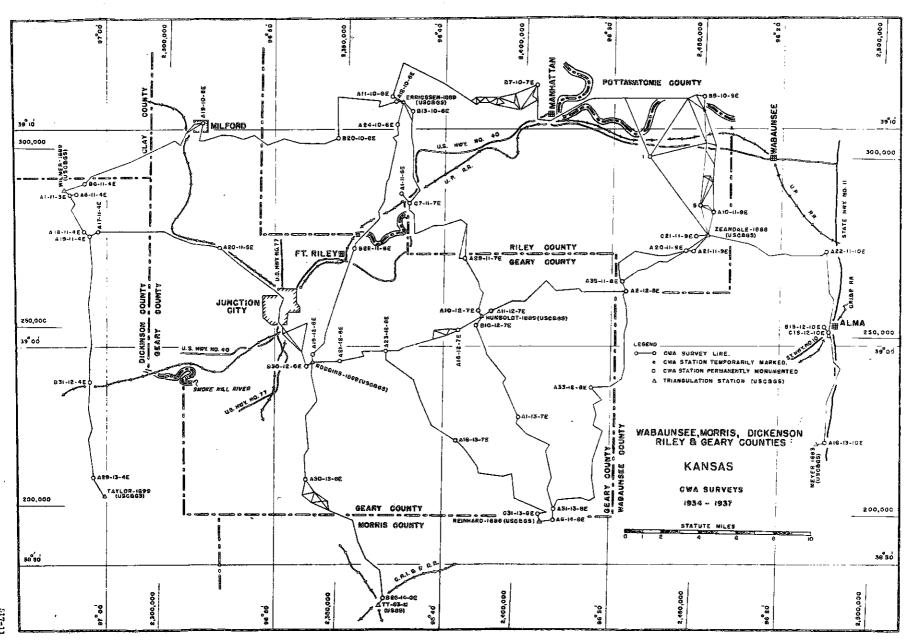
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KANSAS

UNITED STATES COAST AND GEODETIC SURVEY AND STATE SURVEY Second-order traverse and third-order leveling

Field work done by Local Control Survey parties in 1933 and 1934.

Douglas County

From U.S.C.& G.S. triangulation station KANWAKA to U.S.C.& G.S. triangulation station SIMMONS.

KANWAKA (U.S.C.& G.S.) (Douglas County, F.D.Granger, 1887; 1930).--About 18 miles east of Topeka, 10 miles northwest of Lawrence, and 5 miles south of Le Compton, in the northeast corner of the NW\\$SE\\$ sec. 22, T.12 S., R.18 E., in Kanwaka Township in a pasture south of U.S.Road no.40, on land owned (1930) by Thomas Anderson. The underground, station, and witness marks are described in notes 1, 2, and 3. The post marking the station is inscribed *F.D.G. 1887* on the south side near the top. A standard bronze reference tablet is in the concrete roadbed of U.S.Road no.40, 0.7 foot from the south edge of the concrete, 29.02 meters (95.2 feet) due north from the station. Additional distances and directions are as follows: Quarter-section corner of sections 22 and 23 is 441.05 meters (1,447.0 feet) north and east; quarter-section corner of sections 22 and 23 is 441.05 meters (1,447.0 feet) north and east; quarter-section corner of sections 22 and 27 is \$56.55 meters (2,810.5 feet) south and west; George Anderson's house is \$181.46 meters (1,251.5 feet) north and west. Elevation: 1,129.219 feet.

Plane coordinates: (N), x = 2,740,018.03 feet; y = 250,854.90

A27-12-15E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 7.5 miles west and 1 mile north of Lawrence, 4 miles south and 0.5 mile west of Lecompton, in north center of 1 miles sec. 27, T.12 S., R.15 E., Kanwaka Township, on property of the Kansas City Life Insurance Company, 764 feet east of centerline of north-south half-section line road, and 351 feet south of eastwest section line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. Elevation:
1,107.145 feet.

Plane coordinates: (N), x = 2,739,686.74 feet; y = 247,946.05

A34-12-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 7.5 miles west of Lawrence, 1.5 miles west of Kanwaka, on right-of-way of north-south half-section line county road, in northwest corner of NwiNež sec. 34, 7.12 S., R.18 E., Kanwaka Township, 73.6 feet south of centerline of east-west section-line road (Stull Road), 34 feet east of centerline of north-south half-section line road (Globe Road), and 1 foot west of north-south property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,036.304 feet.

Flame coordinates: (N), x = 2,739,150.36 feet; y = 242,899.62 feet.

B34-12-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 3.75 miles north, and 0.5 mile west of Clinton (by road), in sec. 34, T.12 S., R.18 E., 1,373.5 feet south of centerline of east-west section-line road (Stull Road), and in culvert. Station is a monel metal rivet in concrete, projecting 1/k inch above surface of concrete.

No elevation or coordinates have been determined for this station.

atation.

A3-13-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 7.5 miles west of Lawrence, 2.75 miles north and 0.5 mile west of Clinton, 1.25 miles south of Stull Road, near center of NW\$\frac{1}{2}\$ esc. 3, T.13 \$\frac{1}{2}\$. R.18 \$\frac{1}{2}\$. Kanwaka Township, on property of Mrs. Buchheim, 206.5 feet east of north-south quarter-section line fence, and directly under east-west quarter-section fence. Station is a U.S.C.& C.S. and State Survey standard disk in concrete flush with ground. Elevation: 1,009.247 feet.

Flane coordinates: (N), \(\frac{1}{2} = 2,738,204.31 \) feet; \(\frac{1}{2} = 236,346.96 \) feet.

AlO-13-15E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 7-1/2 miles west (U.S.Highway 40 and Stull Road) of
Lawrence (Douglas County) city limits, 3 miles south of Stull
Road, on pier of steel bridge over the Wakarusa River, 1 mile
north and 1/2 mile west of Clinton village (Douglas County), at
point where bridge is in southwest corner of SW\$5E\$\$\frac{1}{2}\$\$ sec. 10,
T.13 S., R.15 E., and 0.9 mile south of east-west road along north
edge of section. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, flush with ground.

No elevation or coordinates have been determined for this
station.

station.

A15-13-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 2 miles south and 7-1/4 miles west of Lawrence, on U.S.
Highway 73W, 1/2 mile north and 1/4 mile west of Clinton village, on top of high knoll, on land belonging to W.J.Cummings, in north-west corner of NE25E4 of sec. 15, 7.13 S., R.18 E., 1,116.3 feet S.50°W. of half-section corner stone, 353.6 feet S.19°E. of centerline of 25-inch elm, and 332.1 feet S.87.5°E. of centerline of 20-inch hackberry tree. (Directions are magnetic and distances measured with steel tape.) Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 994.332 feet.
Plane coordinates: (N), x = 2.741,315.12 feet; y = 223,984.68 feet.

B15-13-16E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 9 miles west and 2 miles south of Lawrence, 3/4 mile west and 1/2 mile north of Clinton, in northwest corner of NW10W1 sec.
15, T.13 S., R.18 E., Clinton Township, on land of Emma S. Cummings, 1,116.3 rest 5.50°% of half-section corner stone, 553.6 feet S.19°E. of centerline of 28-inch elm, 3)2.1 feet S.87.5°E. of centerline of 20-inch hackberry tree (magnetic). Witness mark No.1 is a U.S.C.4 G.S. and State Survey standard disk in concrete, projecting 3 inches, with arrow pointing to station. This mark is in the east-west half-section line fence, 354 feet east of north-south section line, and 235.5 feet north of station. Witness mark No.2 is a U.S.C.4 G.S. and State Survey standard disk in boulder, projecting 6 inches, with errow pointing to station. This mark is 312 feet south of east-west half-section line fence, 186 feet east of north-south section line, and 182.4 feet S.65°W. (magnetic) of station. Station is a U.S.C.4 G.S. and State Survey standard disk in concrete flush with the ground. No elevation has been determined for this station.

Plane coordinates: (N), x = 2,737,279.97 feet; y = 224,171.59 feet.

A22-13-18E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).

-About 8-1/2 miles west and 2 miles south of Lawrence, 1/2 mile west and 1/4 mile south of Clinton, on right-of-way of Globe Road in northeast corner of SEAN& sec. 22, T.13 S., R.18 E., Clinton Township, 994 feet north of east-west half-section line fence, 34 feet west of centerline of Globe Road, and 1 foot east of property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 952.464 feet.

Plane coordinates: (N), x = 2,739,733.77 feet; y = 220,178.68

A34-13-18E RV (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.5 miles west and 7 miles north of Baldwin, by U.S.High-way 50 and Globe Road, in Clinton Township, 1/2 mile west and 2 miles south of Clinton village, on concrete culvert, on Globe Road right-of-way, in northeast corner of NEANW2 sec. 34, T.13 S., R.18 E., 442 feet south of centerline of east-west section-line road, 5 feet from south end of west hub-guard, and .55 foot from inside edge. Station is a monel metal rivet in concrete, projecting 1/8 inch above ground. Elevation: 875.275 feet.

No coordinates have been determined for this station.

B34-13-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.5 miles west and 7 miles north of Baldwin, by U.S.
Highway 50 and Globe Road, 2 miles south and 1/2 mile west of
Clinton, in southwest corner of Swissi sec. 34, T.13 S., R.18 E.,
Clinton Township, 146.1 feet N.57E. (magnetio) of section-corner
stone, 142.75 feet north of section-corner stone, 34 feet east of
centerline of Globe Road, and 1 foot west of property-line fence.
Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,061.442
feet.

Plane coordinates: (N), x = 2,740,283.21 feet; y = 206,096.17

A3-14-18E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).-About 11.5 miles west and 5-3/4 miles north of Baldwin, by U.S.
Highway 50 and Globe Road, 3.25 miles south and 1/2 mile west of
Clinton, in northwest corner of SWANE4 sec. 3, T.14 S. R.18 E.,
Marlon Township, 1,373 feet south of section-corner stone, 34 feet
east of centerline of Globe Road, and 1 foot west of property-line
fence. Station is a U.S.C.& G.S. and State Survey standard disk
in concrete, projecting 2 inches above ground. Elevation:
1,021.830 feet.

Plane coordinates: (N), x = 2,740,325.86 feet; y = 204,578.95

B3-14-18E RV (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.5 miles west and 5.1 miles north of Baldwin, by U.S.
Highway 50 and Globe Road, 3.9 miles south and 1/2 mile west of
Clinton, in SE26W2 sec. 3, 7.14 S., R.18 E., Marion Township, on
north wingwall on west end of one-span concrete culvert, (culvert
is 0.1 mile north of south east-west section-line road), on rightof-way of Globe Road. Station is a monel metal rivet set 0.25
foot west of west edge of culvert, 0.15 foot south of north edge
of north rail post, and projects 3/16 inch.
No elevation or coordinates have been determined for this
station.

AlO-14-16E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11 miles west and 4.5 miles north of Baldwin, by U.S.Highway 50 and Globe Road, 4.5 miles south and 1/2 mile west of Olinton, in southeast corner of SE\(\frac{1}{2}\) SW\(\frac{1}{2}\) sec. 10, T.14 S., R.16 E.,
Marion Township, 136 feet N.25°W. (magnetio) of quarter-corner stone of section, 130.9 feet north of centerline of east-west half-section, on line road, 57.75 feet N.40°E. (magnetic) of northeast corner of stone foundation of frame house, and 35 feet west of centerline of Globe Road. Station is a U.S.C.& G.S. and State Survey standard diek in concrete, 1 inch below ground. Elevation: 1,076.553 feet.

Flane coordinates: (N), x = 2.7ho has EF county.

Plane coordinates: (N), x = 2,740,453.55 feet; y = 198,191.07

A15-14-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.5 miles went and 5-3/4 miles north of Baldwin, by U.S.
Highway 50 and Globe Road, 5-1/4 miles south and 1/2 mile west
of Clinton, on right-of-way of Globe Road, west center of NWANE\$
sec. 15, T.14 S., R.18 E., Marion Township, 34 feet east of centerline of north-south half-section line road (Globe Road), and
3 feet south of east-west quarter-section fence line. Station
is a U.S.C.& G.S. and State Burvey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,069-519 feet.
Flane coordinates: (N), x = 2,740,674.81 feet; y = 194,095.03
feet.

A27-14-15E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.5 miles west and 1.9 miles north of Baldwin, by U.S.
Highway 50 and Globe Road, 7.1 miles south and 0.5 mile west of
Clinton, in east center of NE#N# sec. 27, 7.14 S., R.16 E.,
Marion Township. 602 feet south of centerline of east-west sectionline road, 45.7 feet N.59°E. (magnetic) of southeast corner of
concrete foundation of small one-story frame house, and 34 feet

west of centerline of north-south half-section line road (Globe Road). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,124,229 feet.

Plane coordinates: (N), x = 2,740,941.25 feet; y = 154,216.51 feet;

feet.

A34-14-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 11.75 miles west and 1 mile north of Baldwin, by U.S.
Highway 50 and Globe Road, 8 miles south and 5/4 mile west of
Clinton, in north center of NaNW3 sec. 34, 7.14 S., R.18 E.,
Marion Township, 1,280 feet west of centerline of north-south
half-section line road (Globe Road), 145.8 feet 8.40°E. (magnetic)
of southeast corner of concrete block foundation of small frame
house, and 25 feet south of centerline of east-west section-line
road. Station is a U.S.C.& G.S. and State Survey standard disk
in concrete, flush with ground. Elevation: 1,149.943 feet.

Flame coordinates: (N), x = 2,739,826.12 feet; y = 179,452.59
feet.

feet.

SIMMONS (U.S.C.& G.S.)(Douglas County, F.D.Granger, 1857; 1930).—About 14 miles west of Baldwin City, near the center of the SW\$5E\frac{1}{2}\$ sec. 32, T.14 S., R.18 E., near the summit of a prominent rooky hill used as a feed lot on land formerly owned by P.A.Bimmons and still known as the Simmons farm. The underground mark is a drill hole in the head of an iron bolt tightly wedged in a hole drilled in a ledge of limestone about 2-1/2 feet below the surface of the ground. The station and witness marks are described in notes 1 and 2. The following distances and azimuths are from the station: Northwest corner of stone wall, 43,34 meters (142.2 feet), 272*52'; southwest corner of section 32, 663.40 meters (2.176.5 feet), 291*36'; northwest corner of the Simmons house, 57.57 meters (287.3 feet), 354*50'. A farmyard gate is 22.3 meters (73 feet) about west. Elevation: 1,192.402 feet.

Plane coordinates: (N), x = 2,731,256.96 feet; x = 174,731.27 feet.

feet.

Douglas County

From U.S.C.& G.S. triangulation station SIMMONS (described slee-where in this publication to U.S.C.& G.S. triangulation station BEEE MOUND.

No coordinates have been established for stations in this line.

A33-14-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934)
--About 12.5 miles west by U.S.Highway 50 and 1/4 mile north of
Baldwin, 4-1/2 miles west and 1/4 mile north of Worden, in the
southeast corner of NE18W1 sec. 33, T.14 S., R.18 E., Marion
Township, 48.75 feet west of centerline of north-south, half-section line road, and 1 foot north of east-west quarter-section
line. Btation is a U.S.C.& G.S. and State Survey standard disk
in concrete, flush with ground. Elevation: 1,161.849 feet.

B34-14-18E RV (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).--About 11.5 miles west of Baldwin, 3.5 miles west of Worden, in sec. 34, T.14 S., R.18 E., Marion Township, on two-span concrete culvert on right-of-way of U.S.Highway 50, 3 feet from west end of north hub-guard of culvert; (culvert is 392.25 feet east of centerline of north-south half-section line road) (Globe Road), which bisects 834-14-18E. Station is a monel metrivert in concrete, projecting 3/16 inch above concrete. Elevation: 1,056.440 feet.

A3-15-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 193h).
--About 11 miles west of Baldwin by U.S.Highway 50, 3 miles west of Worden, in northeast corner of NE1NE1 sec. 3, T.15 S., R.18 E., Marion Township, 85 feet west of north-south section line, 49 feet south of centerline of east-west section-line road (U.S. Highway 50), and 1 foot due north of concrete post right-of-way marker. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,076.830 feet.

A2-15-18E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).
--About 10.5 miles west of Baldwin, 2.5 miles west of Worden, by
U.S. Highway 50, in northeast corner of NEANW sec. 2, T.I5 S.,
R.18 E., Marion Township, 49 feet south of centerline of eastwest section-line road (U.S. Highway 50), 23 feet west of centerline of north-south half-section line road, and 4 feet east and
1 foot north of concrete post right-of-way marker. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,084.682 feet.

A31-14-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5-1/2 miles west of Baldwin, 1/2 mile west of Worden, in southwest corner of SW\$SE1 sec. 31, T.14 S., R.19 E., Willow Springs Township, 378 feet east of north-south half-section line, 49-1/2 feet north of centerline of east-west road (U.S.Highway 50), and 1 foot west of concrete post right-of-way marker. Station is a U.S.C.& G.S. and State Survey standard diek in concrete, projecting 3 inches above ground. Elevation: 1,112.137 feet.

A5-15-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--In Worden, in northwest corner of NW&NW& sec. 5, T.15 S.,
R.19 E., Willow Springs Township, on lawn of Worden Evangelical
Church, 72.2 feet south of centerline of east-west section-line
road (U.S.Highway 50), 60.3 feet east of centerline of northsouth section-line road, and 2 feet west and 6 inches north of
northwest corner of church. Station is a U.S.C.& G.S. and State
Burvey standard disk in concrete, flush with ground. Elevation:
1,089.385 feet.

AM-15-19E RV (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934)..-About 6-3/4 miles west of Baldwin by U.S.Highway 50, 1-1/4 miles east of Worden, in north center of NWANW2 sec. 4, T.15 S., R.19 E., Willow Springs Township, on two-span concrete highway oulvert over West Toy Creek, 6 inches from east end and 5-1/4 inches from south edge of south hub-guard of culvert.

Station is a monel metal rivet, projecting 1/4 inch above concrete. Elevation: 1.003.114 feet.

A53-14-19E (Kans.Geod.S.) (Douglas County, L.E.Conrad, 1934).

-About 6 miles west of Beldwin by U.S.Highway 50, 2 miles east of Worden, in southeast corner of SEISEI sec. 33, T.14 S., R.19 E., Willow Springs Township, 189 feet west of centerline of north-south section-line road, 63.5 feet north of centerline of east-west section-line road (U.S.Highway 50), 13.5 feet north of property-line fence, and 2.8 feet east of west boundary fence of township yard. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,076.565 feet.

A3-15-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5.5 miles west of Baldwin by U.S.Highway 50, and 2.2 miles east of Worden, in northeast corner of NW2NW2 sec. 3, T.15 S., R.19 E., Willow Springs Township, on property of Edward F. Hyland, 998 feet east of centerline of north-south section-line road, 54.3 feet south of centerline of east-west section-line road (U.S.Highway 50), 8.3 feet east and 4.3 feet south of right-of-way marker, and 3.5 feet south of property fence line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. Elevation: 1,085,982 feet.

B3-15-19E RV (Kans.Geod.S.) (Douglas County, L.E.Conrad, 1934).

-About 5 miles west of Baldwin by U.S.Highway 50, and 3 miles east of Worden, in northeast corner of NEANE4 sec. 3, T.15 S., R.19 E., Willow Springs Township, on three-span concrete bridge over East Toy Creek on U.S.Highway 50, (bridge is 0.9 mile east of west section line), 4 feet from east end of south hub-guard of bridge. Station is a monel metal rivet in concrete, projecting 1/4 inch above concrete. Elevation: 982.690 feet.

A2-15-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 4.5 miles west of Baldwin on U.S.Highway 50, and 3.5 miles east of Worden, in northeast corner of NENWi sec. 2, T.15 B.,
R.19 E., at Willow Springs Township croseroads, 38 feet west of centerline of north-south half-section line road (U.S.Highway 73 W.), and 29.4 feet south of centerline of east-west section-line road (U.S.Highway 50). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,012.931 feet.

A36-14-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 4.3 miles east of Worden by U.S.Highway 50, and 3.7 miles west of Baldwin on highway right-of-way, in southwest corner of SEIBW2 sec. 36, T.14 S., R.19 E., Willow Springs Township, 513.3 feet east of north-south section-line property fence, 33 feet north of centerline of east-west section-line road (U.S.Highway 50), and 1 foot south of east-west property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,096.190 feet.

A6-15-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5 miles east of Worden by U.S.Highway 50, and 3 miles west of 6th Street in Baldwin, in northwest corner of NWANWA sec. 6, T.15 S., R.20 E., Palmyra Township, on Cities Service Company pipeline right-of-way, 78.8 feet S.63*E. (magnetic) of chiseled cross in pavement marking section-corner stone, 47 feet south of centerline of pavement of U.S.Highway 50, and 12 feet south of propertyline fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,092.793 feet.

A5-15-20E RV (Kans.Geod.S.)(Douglas County, L.E.Conrad, 193%).
--About 6.3 miles east of Worden by U.S.Highway 50, 1.17 miles west of 6th Street in Baldwin, Palmyra Township, 0.3 mile from west north-south section line, on south wingwall of west approach to single-span concrete bridge over Great Toy Creek, (bridge is 3/10 mile from west north-south section line), 3.1 feet from west end and 0.3 foot north of south side of wingwall. Station is a monel metal rivet in concrete, projecting 3/16 inch above ground. Elevation: 1,011.047 feet.

A4-15-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).

--In Baldwin, in northwest corner of NM15W1 sec. 4, T.15 S.,
R.20 E., Palmyra Township, 1 mile west of 6th Street, at crossroads, 155.5 feet east of centerline of Lawrence Street, 27 feet
south of centerline of High Street, 108.6 feet N.20*E., (magnetic)
of northwest corner of stone house, and 91.6 feet N.10*W. (magnetic) of northeast corner of stone porch of stone house. Station is a U.S.C.& G.S. and State Survey standard disk in concrete,
flush with ground. Elevation: 1,096.934 feet.

B4-15-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).-In Baldwin, Palmyra Township, in parking on south side of High
Street, between 14th and Main Streets, in morth center of Mask sec. 4, 7.15 S., R.20 E., approximately 300 feet east on High Street
from Atchison, Topeka & Santa Fe Raliroad tracks, 36.5 feet from
northeast corner and 40.0 feet from northwest corner of two-story
frame house (1417 High Street), 14.7 feet south of south edge of
20-inch pavement on High Street, and 12.3 feet 8.85/E. of centerline of 20-inch elm tree. (Bearing magnetic and distances measured
with metallic cloth tape.) Station is a U.S.C.& G.S. and State
Survey standard disk in concrete, flush with ground. Elevation:
1,047.702 feet.

O4-15-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).-In Baldwin, Palmyra Township, in park south of High Street, between 11th and 12th Streets, in center of sections 15 and 20E.,
132 feet west of centerline of 11th Street, 21.9 feet south of south edge of pavement on High Street, 124.2 feet 8.30°E. of stone
foundation of two-story frame house (1112 High Street), 110.1 feet
8.8°M. of southwest corner of stone foundation of two-story frame
house (1104 High Street), and 55.5 feet N.29°E. of centerline of
24-inch elm tree. (Bearings magnetic and distances measured with
metallic cloth tape.) Station is a U.S.C.& G.B. and State Survey
standard disk in concrete, flush with ground. Elevation:
1,011.405 feet.

D4-15-20E (Kana.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--In Baldwin, at northwest corner of intersection of hiphway and 8th Street, in center of in-15E; sec. 4, T.15 B., R.20 K.,
Palmyra Township, 16 freet north of north curb of High Street,
9.2 feet east and 3.75 feet south of southeast corner of stone foundation of brick building, and 7.2 feet west of wast curb of 8th Street. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 3 inches under brick sidewalk and under brick marked with chiseled cross. Elevation: 1,055.594 feet.

Baldwin City (Kene. Geod. S.) (Douglas County, L.E. Conrad, 1931)...-In Baldwin, in alloy between High and Indiana Streets and between 6th and 7th Streets, in northeast corner of NE3SE3 sec. 4, T.15 S., R.20 E., Palmyra Township, at center of southeast concrete footing of water tower, and 3/10 foot northeast of southwest eide of footing. Station is a U.S.C.& G.B. and State Survey standard disk flush with ground. Elevation: 1,037.268 feet.

A3-15-20E (Kens.Good.S.)(Douglas County, L.E.Conrad, 1934). A3-15-20E (Kans. Geod. S.) [Douglas County, L.E. Conrad, 1934].

-In Baldwin, in parking lot southwest of Intersection of High
and Third Streets, in northeast corner of NW\$5W\$\frac{1}{2}\$ sec. 3, 7.15 S.,

8.20 E., Palmyra Township, 61.6 feet N.35 E. of northeast corner
of North wing of frame house, 53.7 feet west of centerline of
Third Street, 30 feet south of centerline of High Street, 19.6
feet N.60°E. (magnetic) of 20-inch soft maple, and 15.4 feet north
of property line. Station is a U.S.C.& G.B. and State Survey
standard disk in concrete flush with ground. Elevation: 1,045.245
feet.

AlO-15-20E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).
--About 9.25 miles west of Edgerton (Johnson County) and 0.75
mile east of 6th Btreet in Beldwin, by U.S. Highway 50, in northeast corner of NW ANE ecc. 10, 7.15 S., R.20 E., Palmyra Township, 1,400.2 feet west of east north-south section line, 63 feet
south of centerline of power line, and 30 feet south of centerline of east-west section-line road (U.S. Highway 50). Station is
a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,081.198 feet.

A2-15-20E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).
--About 9 miles west of Edgerton by U.S. Highway 50, (Johnson County) and 1.1 miles east of 6th Street in Baldwin, in center of 8W\$3W\$ sec. 2, 7.15 S., R.20 E., Palmyra Township, 573.5 feet east of north-south section line, 31 feet north of centerline of U.S. Highway 50, and 2.4 feet south of property-line fence. Station is a U.S.C.& G.S. and State Survey standard diek in concrete, projecting 1 inch above ground. Elevation: 1,077.912 feet.

All-15-20E (Kana.Geod.S.)(Douglas County, L.E.Conrad, 1934). --About 8.1 miles west of Edgerton and 1.9 miles east of 6th Street in Baldwin, by U.S. Sighway 50, in north center of NEINEL sec. 11, T.15 S., R.20 E., Pelmyrs Township, 554.2 feet west of north-eouth section line, 105.3 feet N.5°E. of northeast corner of foundation of one-story frame house, 32 feet south of centerline of east-west section-line rosd (U.S.Highway 50), and I foot north of right-of-way fence. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,084.25& feet.

Al-15-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 7.25 miles west of Edgerton and 2.75 miles east of 6th
Street in Baldwin, by U.S. Highway 50, in southwest corner of
StägE4 sec. 1, T.15 S., R.20 E., Palmyra Township, 234.2 feet east
of quarter-section line (first quarter-line west of east section
line), 71 feet 8.6°W. of southeast corner of two-story frame
house, 31 feet north of centerline of east-west section-line road
(U.S. Highway 50), and 1.7 feet south of property-line fence.
Station is a U.S.C.4 G.S. and State Survey standard disk in concrete and flush with ground. Elevation: 1,097.050 feet.

A7-15-21E (Kans. Geod. 8.) (Douglas County, L.E. Conrad, 1934).
--About 6.25 miles weet and 3.75 miles east of 6th Street in
Baldwin, by U.S. Highway 50, in northwest corner of NEANE2 sec. 7.
15 S. R.18 E. Palmyra Township, 955.5 feet west of centerline
of north-south section-line road, 129.6 feet south of southwest
corner of large two-story frame house, 31 feet south of centerline of east-west section-line road (U.S. Highway 50), and 2.2
feet north of south property-line fence. Station is a U.S.C.&
G.S. and State Survey standard disk in concrete, projecting 1
inch above ground. Elevation: 1,111.616 feet.

A5-15-21E (Kana.Geod.S.)(Douglas County, L.E.Conrad, 1934)
--About 5.8 miles west of Edgerton and 4.2 miles east of 6th
Street in Baldwin, by U.S.Highway 50, in southeast corner of
Swissa sec. 5, T.15 B., R.21 E., Palmyra Township, 1,019.2 feet
east of centerline of north-south section-line road, 32 feet
north of centerline of east-west section-line road (U.S.Highway
50), and 0.6 foot south of north property-line fence. Bitation
is a U.S.C.& G.S. and State Burvey standard disk in concrete,
projecting 1 inch above ground. Elevation: 1,096.294 feet.

85-15-21E (Kana. Good. 8.) (Douglas County, L.E. Conrad, 1934).
--About 4.5 miles east of 6th Street in Baldwin, along U.S. Highway 50, in south center sec. 5, T.15 8., R.21 E., on northwent wingwell of two-span concrete culvert, 0.8 foot east of west end, and 0.) foot north of north face of bub-guard. Station is a monel metal rivet in concrete, projecting 3/16 inch above surface of concrete. Elevation: 1,072.647 feet.

A9-15-21E (Kane.Geod.S.) (Dougles County, L.E.Conrad, 1934).
--About 5.4 miles east of 6th Street in Baldwin and 4.6 miles west of Edgerton, by U.S. Highway 50, on right-of-way, in north center of NEANWA sec. 9, T.15 S., R.21 E., Palmyra Township, 541.6 feet west of north-aouth half-section line, 52 feet south of centerline of highway, and O.E foot north of south propertyline fence. Station is a U.S.C.& G.B. and State Survey standard disk in concrate, projecting 1 inch shove ground. Elevation: 1,101.429 feet.

AU-15-21E RV (Kana.Geod.S.)(Douglas County, L.E. Conrad, 1934).--About 6 miles east of 6th Street in Baldwin, and 4 miles west of Edgerton, on U.S.Highway 50, in sec. 4, T.15 S., R.21 E. Palmyra Township, on northwest wingwall of single-span concrete

univert crossing U.S. Highway 50, 100 feet west of east section line, 0.65 foot east of west end of north hub-guard, and 0.3 foot north of north face of hub-guard. Station is a monel metal rivet in concrete, projecting 3/16 inch shove concrete. Elevation: 1,058.927

A3-15-21E (Kans.Geed.S.)(Dougles County, L.E.Conred. 1954).
--Aheut 6.3 miles east of 6th Street in Baldwin, and 3.7 miles west of Edgerton by U.S.Highway 50, on right-of-way in south center of SE45W4 sec. 3, T.15 S., R.21 E., Palmyra Township, 720.2 feet west of half-section line, 108.7 feet south of southwest corer of foundation of frame house, 22 feet north of centerline of U.S.Highway 50, and 1.1 feet south of property-line fence. Station 1s a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,097.745 feet.

BERE MOUND (U.S.C.& G.S.)(Douglas County, F.D. Granger, 1867; 1922).—About 1 miles east of Edgerton, in Palmyra Township, 1/4 mile west of the Johnson-Douglas County line, and 2-1/4 miles north of the Franklin-Douglas County line, in a oultivated field owned (1922) by Mrs. Dwyer, who lives in Edgerton, and farmed by W.A.Smith. The underground, station, and witness marks are described in notes 1 and 2, the station mork being 11 inches below the surface. A 6-inch pipe line passes above and 5 inches northeast of the station mark. Reference mark no.1, a standard bronze tablet in a block of concrete, is just south of the north fence of the poultry yerd, 27.25 meters (89.5 feet), N.15°E. (magnetic) from the northeast corner of the Dwyer house, and 106.59 meters (349.7 feet) S.9°E. (magnetic) from the station. Reference mark no.2, similar to no.1, is in a small pasture just out from the garden fence, 43.74 meters (143.5 feet) S.62°M. from the station and the center of the Dwyer house is 142 meters (466 feet) from the station in azimuth 7°09'. Elevation: 1,124.041 feet.

Plane coordinates: (N), x = 2,837,886.84 feet; y = 173,183.10 feet.

Douglas County

From U.S.C.& G.S. triangulation etation KANWAKA (described elsewhere in this publication) to U.S.C.& G.S. triangulation station LAWRENCE.

A23-12-18E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 4 miles south and 1 mile east of Lecompton, and 6 miles west and 1 mile north of city limits of Lewrence, along U.S.Righway 40, in southeast corner of S525c; sec. 23, T.12 S., R.18 E., Kanwaka Township, 587-1/2 feet north of east-west section line, 27, 3 feet west of centerline of north-south section-line road, and 8 inches from north-south property-line fence. Station is a U.S. C.& C.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,062.907 feet.

Plane coordinates: (N), x = 2,746,794.72 feet; y = 249,107.83 feet.

A;4-11-18E (Kans.Geod.S.) (Douglas County, L.E. Conrad, 1934).
--In Lacompton, in approximate east center of sec. 34, T.11 S.,
R.18 E., Lecompton Township, near Atchicon, Topeka & Sante Fe Railway station, on south end of headwall of culvert 37E., 1.5 feet from east edge of wall and 0.6 foot from south face of well. Station is a U.S.C.& G.S. and State Survey standard disk in concrete.
No elevation or coordinates have been determined for this

A25-12-18E (Kans. Geod.S.) (Douglas County, L.E. Conrad, 1934).
--In Kanwaka, on U.S. Highway 40, in anothwest corner of 5%36% sec. 25, T.12 B., R.18 E., 519.5 feet north of east-west section-line road, 27.6 feet east of centerline of north-south section-line road, and 14 inches west of north-south right-of-way fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 4 inches above ground. Elevation: 1,064.334 feet.

Plane goordinates: (N), x = 2,747,024.26 feet; y = 243,738.98

A36-12-18E (Kans. Geed. 8.) (Douglas County, L.E. Conrad, 1934).
--About 5.5 miles weet of Lawrence city limits, by U.S. Highway 40, and 1/2 mile east of Kanwaka Village, in northwest corner of NW1NE sec. 36, T.12 S., R.18 S., 180 feet east of north-south half-section line, 32.5 feet south of centerline of east-west section-line road, directly under east-west property-line fence. Station is a U.S.C.& O.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,081.704 feet.
Plane coordinates: (N), x = 2,749,847.06 feet; y = 243,242.09 feet.

A30-12-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5 miles west of Lawrence and 1 mile east of Kanwaka along U.S.Highway %0, in south center of Swidowi sec. 10, 71.28 7.8, Rig E., Kanwaka Township, on George A. Dews property, 776.5 feet east of centerline of north-south section-line road, 47.1 feet north of centerline of east-west section-line road, and 18.5 feet north of east-west property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting about 2 inches above ground. Elevation: 1,072.710 feet.
Plane coordinates: (N), x = 2.753,100.87 feet; y = 243,402.44

B30-12-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About & miles west of Lawrence city limits by U.S.Highway 40, and 2 miles east of Kanwaka Village, in south center of SE25E2 sec. 30, T.12 S., R.19 E., Kanwaka Township. at right-of-way of east-west section-line road, and 560 feet west of centerline of north-south section-line road. Station is a monel metal rivet set in center of hub-guard of concrete culvert (single span) projecting 1/4 inch. Elevation: 1,021.428 feet.

No coordinates have been determined for this station.

A\$3-12-198 (Kans.Geod.E.)(Douglas County, L.E.Conrad, 1934). --About 3 miles wast of Lawrence and 3 miles east of Kanwaka, along U.S.digbway NO, in northwest corner of NWANWA Mcc. 33.

1.12 S. 8.19 E., Wakarusa Township, 167.75 feet east of centerline of north-south section-line road, and 29.75 feet south of centerline of east-west section-line road. Station is a U.S. C.& G.S. end State Survey standard disk in concrete, flush with ground. Elevation: 1,068,945 feet.

Plane coordinates: (M), x = 2.763.143.77 (ret; y = 241.710.69

A27-12-19E (Kans.Gecd.S.)(Louglas County, L.E.Conrad, 1934).
--About 2 miles west of Lawrence and 4 miles east of Kansaka, along U.S.Highway 40, in southwest corner of Swider acc. 27.
T.12 S. R.19 E., Wakarusa Township. 574.5 fest cost of centerline of north-south section-line road, and 31.8 feet north of centerline of U.S.Highway 40. Station 10 a U.S.C.& G.S. and State Survey standard disk in concrete projecting shout 1 inch above ground. Elevation: 1.029.240 feet.
Plane coordinates: (N), x = 2.768.870.30 feet; y = 243.947.69 feet.

A\$4-12-19E (Kana. Teod. 3.)(Douglas County, L.E.Conrad, 1934).
--About 1-3/4 miles by road west of Lawrence city limits, 4-1/4 miles by U.S. Highway 40 eart to Kanwaka Village, in north center of Neikwä sec. 34, T.12 S., R.19 E., Wakarusa Township, 715 feet west of centerline of north-south half-section line road, 3) feet south of centerline of east-west section-line road, and i foot north of east-west property-line fence, on right-of-way of road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,005.990 feet.

Flane coordinates: (N), x = 2.770,225.46 feet; y = 243,924.66

A35-12-19E (Kana.Geod.8.)(Douglas County, L.E.Conrad, 1934).
--About 1 mile west of Lawrence, 6 miles south and 6 miles east of Lecompton, in southwest corner of SW\$SW\$ sec. 35, T.12 S., R.19 E., Wakarusa Township, 52 feet N.45°E. (magnetic) of section-corner stone, directly under north east-west property-line fence, 37 feet east of north-south section line, and 33 feet north of centerline of east-west section-line rond. Station is a U.S.C.& G.S. and State Survay standard disk in concrete, projecting 2 inches above ground. Elevation: 981.615 feet.

Flame coordinates: (N), x = 2,773.775.08 feet; y = 238,800.14 feet.

Al-13-19E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).
--In Lawrence, at west edge of town, in north center of NWANWA sec. 1, T.13 S., R.19 E., Wakarusa Township, 649 feet east of north-south section line, 27.5 feet south of centerline of east-west section-line road, and i foot north of east-west property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting about 1.5 inches above ground. Elevation: 1,015.992 feet.

Plane coordinates: (N), x = 2.779,664.11 feet; x = 218,936.62 feet.

A36-12-19E (Kans. Geod. S.) (Douglas "County, L.E. Conrad, 1934). --In Lawrence, on Kansae University Campus, in southwest corner of SW19E1 sec. 36, T.12 S., R.19 E., Wakarusa Township, 229.5 feet B. 10°M. of southeast corner of laboratories building, 92.3 feet N.46°E. of brick foundation of frame house, and 43.9 feet N.56°E. northeast of half-section line stone. Station is a U.S. C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 981.95: feet.

Plane coordinates: (N), $\underline{x} \simeq 2.781,710.49$ feet; $\underline{y} \simeq 239,033.72$ feet.

B1-13-19E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--At southwest edge of Lawrence, just outside of city limits, south of Kansas University, is University Place Annex, st. intersection of 18th and Maine Streets, in south center of SWAME, sec. 1, 7.13 S., R.19 E., Wakarusa Township, 78.55 feet N.22*W. of northwest corner of concrets foundation of residence at 1800 Maine Street, 36 feet east of centerline of Maine Street, 29.5 feet north of centerline of 18th Street, and 10 inches south of property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 882.792 feet.

Plane coordinates: (N), z = 2,782,730.65 feet; g = 237,018.22

LAWRENCE (U.S.C.& G.S.) (Dougies County, C.I.A., 1934; Kans. Geod.S., 1934).—In Lawrence, on the north tower of Frazer Hail, on the campus of Kansae State University, in sec. 36, 7:12 S., R.19 E. The original station was the anenometer support, but the anenometer has been removed. U.S.C.& G.S. standard disk has been set in its place. Over the point a rigid plate supported by a pipe has been set to support transit head or target. No elevation has been determined for this station. Plane coordinates: (N), $\underline{x} = 2.781,695.18$ feet; $\underline{\chi} = 239,126.15$ feet.

Douglas and Leavenworth Counties

From U.S.C.& G.S. triangulation station LAWRENCE (described elsewhere in this publication) to U.S.C.& G.S. triangulation station

No goordinates have been established for stations in this line.

A6-13-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--In Lawrence, in parking space on east side of Louisians Street, just above point where 18th Street comes to dead end, in southwast corner SWANWA sec. 6, T.13 S., R.20 E., Wakarusa Township, 7.5 feet east our of Louisians Street, 12.5 feet north of extended north ourb line of 18th Street, 10.8 feet south of

enterline of m. F-lack etm., and M.1 feet weat of concrete elde-nik. Static is m.C.3.C.& O.S. and State Survey standard disk n concerts. Elevation RSI.747 feet.

Bf-13-70E (Know.Good.S.)(Douglas County, L.E.Conrad, 1934),-In lowerone, in front of residence 1372 Kentucky Street, in east
contact of SWARWA and 6, T.13 S., B.20 E., Wakarusa Township, 128.9
Lest north of north outh of 18th Street extended, 33 feet N.859M.
of a climest corner of foundation of 1732 Kentucky Street, 12.2
Lest N.7.W. (Engostic) of centerline of 20-inch elm, and 5.2 feet
eact of eact out of Kentucky Street. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, flush with ground.
Elevation 875.731 feet.

All-12-TCE (Kane, Ocod.S.) (Doug) no County, L.E. Conrad, 1934).
--In Lawrence, on parking in front of 1446 Kentucky Street, in
southeast corner of SWSSW, arec. 11, T.12 S., H.20 E., Wakarusa
Tummahir, 47.2 feet S.60°W. of southwest corner of porch foundation of building at 1446 Kentucky Street, 8.9 feet north of north
curb of 15th Street extended, 7.4 feet 8.53°W. (magnetic) of north
curb of 4.1nch hard maple, and 5.7 feet east of east ourb of
Kantucky Street extended. Station is a U.S.C.& O.S. and State
Survey standard disk in concrete, flush with ground. Flevation:
881.947 feet.

Bil-12-20L (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--In Lawrence, Waksruse Township, in parking in front of residence (1202 Kentucky Street), in southeast corner of NW26W\$ sec. 31, 7.17 S., R.20 E., 10.6 feet east of cest curb of Kentucky Street, 29.4 feet south of south curt line (extended) of 12th Street, 40.4 feet N.60°M. of northwest corner of porch foundation of residence (1202 Kentucky Street), and 7.4 feet 3.45°M. of centerline of 2-foot soft maple tree. (Bearings magnetic and distances measured by a metallic cloth tape.) Station is a U.S.C.& G.S. and State Burvey standard disk in concrete, flush with ground. No elevation has been determined for this station.

C31-12-20E (Kana. Geod. S.) (Douglas County, L.E. Conrad, 1934).In Lawrence, in northeast corner of SWakWa aec. 31, T.12 S.,
R.20 E., Wakarusa Township, in parking in front of 840 Kentucky
Street, 101.6 feet north of curb (extended) of 9th Street, 40.25
feet N.485W. of northwest corner of brick house at 224 West 9th
Street, 50.6 feet S.60°W. of northwest corner of cement block
porch at 840 Kentucky Street, 14.3 feet S.80°W. (magnetic) of centerline of 20-inch elm, and 12.2 feet east of east curb of Kentucky
Street. Station is a U.S.C.& G.S. and State Survey standard disk
in concrete, flush with ground. Elevation: 858.831 feet.

D11-12-20E (U.S.C.& O.S.)(Douglae County, Kans.Geod.S., 1934).
--In Lawrence, at intersection of 7th and New Jereey Streete, at Atchison, Topeka & Santa Fe Railway station, in northeast corner of NWAREA sec. 1, 7.12 S., R.20 E., Wakerusa Township, at railroad milepoat 26-25, at southwest side of station directly southwest of ticket window, and in center of top of stone partition. Station is a U.S.C.& G.S. and State Survey standard disk set in limestone with coment. U.S.C.& G.S. elevation: 825.264 feet.

A30-12-20E (Kans. Geod. S.) (Douglas County, L. E. Conrad, 1934).
--In Lawrence, on 6th Street parking, at north corner of Central
Park, in cast center of SW\$SW\$ sec. 10, 7.12 S., R. 20 E., Wakarusa
Township, 41.7 feet west of west curb of Kentucky Street extended,
16.2 feet north of cement sidewalk, 11.4 feet N.20*E. of centerline of 12-inch hard maple, and 11 feet south of south our bot
6th Street. Stetion is a U.S.C.& G.S. and State Survey standard
Alsk is concrete flush with ground. Eleveron: 813 867 feet disk in concrete flush with ground. Elevation: 833.860 feet.

BNO-12-20E (Mane.Good.S.) (Douglas County, L.E. Conrad, 1934).
--In Lawrence, Wakarusa Township, on west side of south end of concrete bridge (seven spane) over Kaneas River, in west center of southeast quarter sec. NO, T.12 S., R.30 E., 4.8 feet from west edge of southwest approach footing, and 55.1 feet from couth face of same footing. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with the ground. No elevation has been determined for this setting. has been determined for this station.

Ci0-12-20E (Kans. Good. S.) (Dougles County, L.E. Conrad, 1934).
--In North Lawrence, near intersection of Looust and Second Street north center of NESSM, sec. 10, 7.12 S., R.20 E., Grant Township, 101.1 feet west of west curb of Second Street, and 3 feet south of centerline of Locust Street. Station is a U.S.C.& C.S. and State Survey standard disk in concrete, flush with ground. No elevation has been determined for this station.

A29-12-20E (Kana Geod.S.)(Douglas County, L.E.Conrad, 1914).
--In North Lawrence, in foundation of city pumping atation, between North Seventh, North Eighth, Lincoln, and Maple Streets, in lot 14, Simpson's Central Addition, in southwest corner of 544MM sec. 29, T.12 S., R.20 E., Grant Township, at north side of pumping station, and 0.7 foot from east jamb of masonry opening. Station is a U.S.C.& G.S. and State Survey etandard disk in exposed concrete foundation, flush with ground. No elevation has been determined for this station.

B29-12-20E (Kans. Geod.S.) (Douglas County, L.E. Conrad, 1934). --In North Lawrence, near the intersection of Locust and North Eighth Streets, directly in front of 188 Locust Street, 43.2 feet west of centerline of North Eighth Street, 16.5 feet south of centerline of Locust Street, and 1.7 feet south of south curb of Locust Street. Station is a U.S.C.& O.S. and State Survey standard disk in concrete, flush with ground. No elevation has been determined for this station.

C29-12-20E (Kans. Geod.S.) (Douglas County, L.E. Conrad. 1934). --In Lawrence, 1 mile east of Horth Seventh Street, 5-1/4 miles weet and 2-1/2 miles north of Eudora, by State Highway 10, in northreast corner of NE395E sec. 29, T.12 S., R.20 E., Grant Township, 1%5 feet south of centerline of east-west half-section line road, 68.4 feet 8.10°E. of southnesst corner of achoolhouse (Biamark School District No.79), and 26 feet west of centerline of east section-line road. Station is a U.S.C.4 G.3 and State Survey standard disk in concrete, flush with ground. No elevation has been determined for this station.

A21-12-20E (Kans.Geod.S.)(Douglas Gounty, L.E.Conrad, 1934).
--About 1/2 mile meat and 1/4 mile north of Lawrence, 5-1/4 miles west and 3-1/4 miles north of Eudora, in southwest corner of

NW45W4 sec. 21, T.12 S., R.20 E., Grant Township, 1,600.9 feet north of centerline of east-west section-line road, 25.3 feet east of centerline of north-south section-line road and 21 feet 8.5% W. of centerline of 2-foot elm tree. Station is a U.S.C.4 G.B. and State Survey standard disk in concrete flush with ground, No elevation has been determined for this station.

A20-12-20E (Kens.Geod.S.)(Douglas County, L.E.Conrad, 1934). --About 1 mile north and 1/2 mile east of Lawrence, 5-1/4 miles west and 4 miles north of Eudora, in northeast corner of NEANEQ sec. 20, 7.12 S., R.20 E., Grant Township, 303-5 feet south of centerline of east-west section-line road (U.S.Highway 40), 60 feet 8.54°E. (magnetic) of northeast corner of foundation frame house, and 39 feet west of centerline of north-south saction-line road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. No elevation has been determined for this station. for this station.

A9-12-20E (Kans.Geod.S.) [Douglas County, L.E.Conrad, 1934], --About 2 miles north and 0.75 mile east of Lawrence, 5.25 miles west and 5 miles north of Eudora, in south center of SEASWA sec. 9, T.12 S., R.20 E., Grant Township, 490 feet east of first quarter-section line west, directly in line with telephone pole line, and 28 feet north of centerline of east-west section-line road. Station is a U.S.C.A G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. No elevation has been determined for this station.

A16-12-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--In North Lawrence, 2 miles north and 1-3/4 miles east of intersection of North Seventh and North Streets, in northwest corner of NEANE2 sec. 16, T.12 S., R.20 E., Grant Township, 1,242.5 feet east of centerline of north-south section-line road (county line), and 25 feet south of centerline of east-west section-line road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. No elevation has been determined for this station.

A10-12-20E (Kans.Geod.S.) (Leavenworth County, i.E. Conrad, 1934).--About 7.5 miles west and 1 mile north of Linwood, 6 miles south and 4.5 miles west of Tonganoxie, in southeast corner of SELEWE sec. 10, 7.12 S., R.20 E., Reno Township, on property of the Dwyer brothers, 262 feet west of north-south half-section line, 29.4 feet north of centerline of large telephone pole line, 21 feet S.12°W. of centerline of 2-foot elm, and 11 feet S.51°E. (magnetic) of centerline of 2-foot elm. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flueh with ground. No elevation has been determined for this station.

A14-12-20E (Kans.Geod.S.)(Leavenworth County, L.E.Conrad, 1934).--About 6.5 miles west and 1 mile north of Linwood, 6 miles south and 3.5 miles west of Tonganoxie, in northwest corner of NEARWA sec. 14, T.12 S., R.20 E., Reno Township, 989 feet west of north-south half-section line, 54 feet south of centerline of large telephone pole line, and 4.5 feet south of property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

All-12-20E (Kans. Geod. S.) (Leavenworth County, L.E. Conrad, 1934).--About 6 miles south and 3 miles west of Tonganoxis, 6 miles west and 1 mile north of Linwood, in west center of SEASE, sec. 11, 7.12 S., 8.20 E., Reno Township, on the W.T.Biskeley property, at side of drive leading to the Blakeley farmhouse, 893 feet west of centerline of east section line, (north-south road), and 403 feet north of centerline of large telephone pole line. Station is a U.S.C.& G.B. and State Survey standard disk in concrete projecting 1 inch above ground. No elevation has been determined for this station.

A7-12-21E (Kans.Geod.S.) (Lesvenworth County, L.E.Conrad, 1934)...-About 4-1/2 miles west and 1 mile north of Linwood, 6 miles south and 1-1/2 miles west of Tonganozie, in southeast corner of SE45W4 seo. 7, T.12 S., R.21 E., Reno Township, 338 feet west of north-south half-section line, and 5 feet north of centerline of large telephone pole line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

B7-12-21E (Kans. Geod. S.) (Leavenworth County, L.E. Conred, 1934)...-About 6 miles south and 1 mile west of Tongsnoxie, 4 miles west and 1 mile north of Linwood, in south center of SE4SE4 sec. 7, 7.12 S., R.21 E., Reno Township, 57) feet west of centerline of east north-south section-line road, and 12.9 feet north of centerline of telephone pole line. Station is a U.S.C.4 G.S. and State Survey standard disk in concrete projecting 1 inch above ground. No elevation has been determined for this station.

A9-12-21E (Kans. Geod. S.) (Leavenworth County, L.E. Conrad, 1934). --About 6 miles south of Tonganoxie, 2-5/4 miles west and 1 mile north of Linwood, in southeast corner of SW2GW2 sec. 9. T.12 S., R.21 E., Reno Township, on property of W.E. Frock, 60 feat west of west querter-section line, (north-south), 49.5 feet S.25°E. (magnetic) of southeast corner of foundation of farmhouse porch, and 18.5 feet north of centerline of large telephone pole line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station. for this station.

A16-12-21E (Kans.Ocod.S.)(Leavenworth County, L.E.Conrad, 1934).--About 6 miles south of Tongenoxic, 2-1/2 miles west and 1 mile north of Linwood, in north center of NWNR\$\frac{1}{2}\ \text{sec.} 16, T.12\ \text{Sh}, R.21\ \text{E.}, Reno Township, in farmyard on private property, \$460 feet east of half-section line, and 119.7 feet south of centerline of large telephone pole line. Station is a U.S.C.& G.B. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

Bll-12-21E (Kans.Geod.S.)(Leavenworth County, L.E.Conrad, 1934).--About 5-3/4 miles south and 1-1/4 miles east of Tonganozie, 1-3/4 miles west and 1-1/4 miles north of Linwood, in southwest corner of NE4SW4 sec. 11, T.12 S., R.21 E., Sherman Township, on property of Q.German, 129.6 feet north of south quarter-section line (east-west), and 5 feet east of quarter-

section line (northeast). Station is a U.S.C.& C.S. and State Survey standard disk in concrete flush with ground, has been determined for this station.

12-21E (Kans.Geod.S.)(Leavenworth County, L.E.Conrad. All-12-21E (Kans. Geod.S.) (Leavenworth County, L.E.Conrad. 1954).—About 5.5 miles south and 1.5 miles east of Tonganozie, 0.5 mile west and 1.5 miles north of Linwood, in north center of NW4SE sec. 11, 7.12 S., R.21 E., Sherman Township, on property of Q. German, 873 feet east of north-south half-section line, and 27.5 feet south of centerline of east-west half-section line road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

A2-12-21E (Kans.Geod.S.)(Leavenworth County, L.E.Conrad, 1934).—About 4.5 miles south and 2 miles east of Tonganoxie, 2.5 miles north of Linwood, in north center of NE18E1 sec. 2, T.12 8., R.21 E., Sherman Township, in a pasture on private property. Reference mark No.1 is standard disk with arrow pointing to station, in concrete poet, projecting 3 inches, and is 527 feet west of centerline of north-south section-line road, 189.3 feet 8.86 w. (magnetic) of station, and 129 feet south of east-west half-section line. Reference mark No.2 is standard disk with arrow pointing to station in concrete post flush with ground, and is on east-west half-section line fence, 716 feet west of centerline of north-south section-line road, and 116.6 feet S.8°E. of station. Station is a U.S.C.& G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

Al-12-21E (Kens. Geod. S.) (Leavenworth County, L.E. Conrad, 1914). --About 5 miles south and 2-3/4 miles east of Tongamoxie, and 2 miles north of Linwood, in sec. 1, T.12 S., R.21 E., Sherman Township, north-south center-section fence line, and 529 feet north of centerline of east-west section-line road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete flush with ground. No elevation has been determined for this station.

B6-12-22E (Kans.Geod.S.)(Leavenworth County, L.E.Conrad, 1934).—About 4.5 miles south and 3.5 miles east of Tonganoxie, 1 mile east and 2.5 miles north of Linwood, in west center of Swinzies ec. 5, 7.12 S., R.22 E., Sherman Township, on property of New York Life Insurence Company, 674 feet north of east-weet half-section line, 228 feet east of centerline of north-south sectionline road, and about 75 feet N.23°E. (magnetic) of northeast corner of stone foundation of one-story frame house. Station is a U.S.C.8 G.S. and State Survey standard diak in concrete projecting 1 inch above ground. No elevation has been determined for this station.

A6-12-22E (Kans. Geod. S.) (Leavenworth County, L.E. Conrad, 1934).—About 4 miles south and 4 miles east of Tonganoxis, 2 miles east and 2.7 miles north of Linwood, in west center of SWiNE; ecc. 6. T.12 S. R. 2E. Sherman Township, on private property, and about 2,400 feet S.45°W. of ECKMAN. Reference mark No.1 is a standard disk with arrow pointing to station, set in concrete, projecting 6 inches, and is in a row of large cottonwood trees on north east-west querter-section line, about 800 feet east of half-section line, and 467 feet south of station. Reference mark No.21s standard disk with arrow pointing to station, set in concrete, projecting 6 inches, and is in north-couth fence row, about 0.175 mile from east section line, 470 feet south of north east-west quarter-section line, and 229.9 feet S.85°W. of station. Station is a U.S.C.& G.S. and State Survey standard disk in concrete 10 inches below ground. No elevation has been determined for this station.

ECKMAN (U.S.C.& G.S.)(Leavenworth County, F.D.Granger, 1885; 1922).—About 8 miles west of north from De Soto, and about 153 meters (502 feet) south and 28 meters (93 feet) west of the north-east corner of sec. 6, T.12 S., R.22 E., in the immediate violinty of the Daisy Hotel, owned and occupied (1922) by Charles Oetsh-laeger. The underground, station, and witness marks are described in note 1. The following distances and azimuths are from the station: northeast corner of Daisy Hotel, 24.11 meters (79.1 feet), 15524!; northwest corner of Daisy Hotel, 24.11 meters (77.1 feet), 17*16'; middle of road, 28.44 meters (93.3 feet) east; E.Hartin's house, 292*22'. The station is surrounded by a bed of charcoal. Elevation: 1,005.200 feet.

Plane coordinates: (N), x = 2,851,445.88 feet; y = 272,333.75 feet.

feet.

Douglas County

From A31-12-20E (on LAWRENCE to ECKMAN line) to Eudora.

No coordinates have been determined for stations in this line.

A33-12-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5 miles west (along State Highway 10) and 1 mile north of
Eudora, 1.25 miles east along 15th Street Road from Lawrence, in
southwest corner of SEASWA sec. 33, T.12 S., R.20 E., Wakarusa
Township, 1,306 feet west of half-section line stone, 32 feet
north of centerline of east-west section-line road, and 1 foot
south of property-line fence. Station is a U.S.C.& O.S. and State
Survey etandard disk in concrete, flush with ground. Elevation:
515.186 feet.

A4-13-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).--In Lewrence, 1-1/2 miles east of Haskell Avenue, (15th Street Road), 4-3/4 miles west (State Right ay 10) and 1 mile north of Eudora, on right-of-way of east-west section-line road, in north-west corner of NWANE2 sec. 4, 7.13 B., R.20 E., Wakarusa Township, 77.9 feet S.33°E. (magnetic) of half-section line stone, 67.5 feet N.19°W. (magnetic) of northeast corner of east wall of stone foundation of the Wm. Schnake house, and 2.6 feet north of centerline of concrete wall supporting iron fence. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, flush with ground. Elevation: 621.932 feet.

A34-12-20E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 3-1/4 miles west slong State Highway 10 and 1 mile north of Eudora, 3 miles east of Lawrence city limita, along 15th Street Rosa, in southwest corner of SE4SE4 sec. 34, T.12 S., H.20 E., Wakarusa Township, on property of Mrs. Cox, 446.3 feet west of 2- by 2-inch wooden bub set by Douglas County surveyor as section corner, 26 feet north of centerlins of east-west section-line rosad, in southwest corner of yard, and 2.5 feet north and 2.5 feet seat of wire fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 823.728 feet.

A2-13-20E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1974).
--About 3.25 miles east along 15th Street Hoad from Lawrence city
limits, 3 miles west (along State Highway 10) and 1 mile north of
Eudora, 1n northeest corner of NW&NW\$ eec. 2, T.13 S., R.20 E.,
Eudora Township, in District 12 schoolyard, 1,165 feet east of
2- by 2-Inch wooden hub set by Douglas County surveyor as section
corner, 104.7 feet N.50°W. of northwest corner of schoolhouse,
79 feet south of telephone pole line slong north side of section-line road, and 2.5 feet east of west schoolyard fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete
flush with ground. Elevation: 812.641 feet.

Al-13-20E (Kans. Geod. S.)(Douglas County, L.E. Gonrad, 1934).
--In Lawrence, east of Haskell Avenue, and along 15th Street Road, 2 Biles west (along State Highway 10) and 1 mile morth of Eudora, in northwest corner of NEANN4 sec. 1, T.13 S. H.20 E., Eudora Township, 960 feet west of north-south half-section line, 107 feet N.30°W. (magnetic) of stone foundation at northeast corner of frame house on property of Conrad Altenbernd, 89.7 feet south of centerline of large telephone pole on north side of east-west road, and 61 feet south of centerline of east-west section-line road. Station is a U.S.C.A G.S. and State Survey standard disk in concrete flush with ground. Elevation: 818.627 feet.

A31-12-21E (Kans.Geod.S.)(Douglas County, L.E.Conrad, 1934).
--About 5 miles east of Lawrence by 15th Street Road, 1-1/4 miles west (by State Highway 10) and 1 mile north of Eudora, in southwest corner of SW4SW4 sec. 31, T.12 B., R.21 E., Eudora Township, in schoolyard of Farmland District 71, 80.5 feet 8.15°W. of southwest corner of schoolhouse, 53.7 feet N.37°E. of section-corner stone, and 12.7 feet S.87°E. of turnstile in sidewalk. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 813.619 feet.

A6-13-21E (Kans. Geod. S.) (Pouglas County, L.E. Conrad, 1934).

-About 5 miles east along 15th Street Road and 0.5 mile south of Lawrence city limits, 1.25 miles west (State Highway 10) and 0.5 mile north of Eudora, in southwest corner of SW\$5W\$ sec. 6,

7.13 S., R.21 E., on Atchinson, Topeka & Banta Fe Railway rightof-way, about halfway between mileposts 20 and 21, 52 feet east of centerline of north-south section-line road, 48.15 feet north of centerline of track, and 2.9 feet south of sast-west propertyline fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 811.867 feet.

B6-13-21E (Kans.Geod.S.) (Douglas County, L.E.Conrad, 1934). --About 6-1/2 miles east of Lawrence city limits, and 1/4 mile west of Eudora, along U.S. dighway 10, in southeast corner of SEIGER sec. 6, T.13 S., R.21 E., Eudora Township, at north end of west pier of four-span steel bridge over Wakarusa River, between the steel supports of the two spans, and about 1 foot north of guardrail. Station is S U.S.C.& G.S. and State Survey standard disk flush with top of concrete pier. Elevation: 816.679

A6-13-21E (Kans. Geod. S.) (Douglas County, L.E. Conrad, 1934).

--In Eudora, about 7 miles east of Lawrence along State Highway
10, in city block 17, in north center of NEANW3 etc. S, T.13 S.,
R.21 E., Eudora Township, on the H.Belchel property, 509 feet
8.70°E., of quarter-mile stone, 418.5 feet east of centerline of
north-south road along west city limits, and 44.5 feet south of
south edge of right-of-way of State Highway 10. Station is a
U.S.C.A G.B. and State Survey standard disk in concrete flush
with ground. Elevation: 885.647 feet.

B8-13-21E (Kans. Geod.S.) (Douglas County, L.E. Conrad, 1934).
--In Eudora, about 7 miles east of Lawrence along State Highway
10, in city block 147, on Eudora High School lawn, and near the
north center of N*NE*2 sec. 8, T.13 S., R.21 E., Eudora Township,
80.4 feet west of east curb of street to the east, 34.7 feet
8.79°W. of southwest corner of flagpole base, and 22.8 feet
B.79°C.E. of southwest corner of school building. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete flush
with ground. Elevation: 866.953 feet.

C8-13-21E (Kans.Geod.S.)(Douglas County, L.E. Conrad, 193%).
--In Eudora, 7 miles east of Lawrence along State Highway 10, in city block 217, in northeast corner of NEAME\$ sec. 8, T.13 S., R.21 E., Eudora Township, 91.3 feet north of ourb of 10th Street (State Highway 10), 22 feet east of centerline of B Street, and 74.3 feet N.50°E. of northeast corner of concrete foundation of the Clara Groedidier house. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, flush with ground. Elevation: 850.225 feet.

Riley, Wabsunsee, and Geary Counties

From U.S.C.& G.S. triangulation station ZEAN DALE to U.S.C.& G.S. triangulation station HUNBOLDT.

ZEAN DALE (U.S.C.& G.S.) (Riley County, F.D.Granger, 1888; 1922; Kans.Geod.S., 1934)...-About 10 miles northwest of Alma, on land owned by Mr. Durine, of Topeks, and leased (1922) by A.S. Allandorph, of Alma, with headquarter ranch about 2 miles south of the station. The station is 8.91 maters (29.25 feet) southwest of the intersection of sections 15, 16, 21, and 22, 7.04 meters (23.1 feet) south of the section fence to the north, and 5.73 meters (18.8 feet) west of the section fence to the east.

It is on the crest of a large, broken prairie, which at this point fails off abruptly to the valley of the Kaw River to the north. In a little ravine about 1/2 mile to the east is a well of good water. The underground, station, and witness marks are described in note 1, the marole post bearing the inscription "F.D.G. 1856" on the south face. Elevation: 1,525.570 feet. Plane coordinates: (N), $\chi \approx 2,451,441.54$ feet; $\chi \approx 278,370.94$ feet.

C21-11-9E (Kans. Geod. S.) (Ritey County, L.E. Conrad, 1934).-About 15.5 miles southesst of Manhattan, 10.6 miles northwest of
Alms, Wabaunese County, 5 miles south and 1 mile sast of Zeandale
(city), the first station 0.6 mile west by apendometer, of ZEAR
DALE, 1,000 steps by most direct route from Zeandale, in NEANWA
sec. 21, 7.1 S., R.9 E., Zeandale Township, 22.6 feet sast of
gatepost in cast-west section-line fence, and 37.7 feet from centerline of wast gatepost in same fence line, (there is a deep
revine with some timber growing in it between this station and
ZEAN DALE). Station is a U.S.C.& G.S. and State Survey standard
disk is concrete, projecting 2 inches above ground. Elevation:
1,465.761 feet.

No operlinates have been detarmined for this estation

No coordinates have been determined for this station.

D21-11-9E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 10.6 miles (by speedometer) from Alma, Wabsunsee County, in
NEANWA sec. 21, T.11 R.9 E., Zeandale Township. 3,494 feet southwest of ZEAN DALE, 1,287.2 feet from C21-11-9E, on north and of
ridge running southwest and east of deep ravine. Statton is a
U.S.C.& G.S. and State Survey standard disk in donorete, flush
with ground with ground.
No elevation or coordinates have been determined for this

A21-11-9E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).--About 14.5 miles southeast of Manhattan, 12 miles northwest of Alma, Wabaunsee County, (along country roads), in BW\$3W\$ sec. 21, T.11 S., R.9 E., Zeandale Township, on land owned by C.W.Allandorph, Topeka, (Williams foreman), about 0.8 mile west and I mile south (by suto) S.45°W. of ZEAN DALE, 80.3 feet east of west line of sec. 21, 43.5 feet north of south fence of Township road, and 3.2 feet north of wire fence. Station is a U.S.C.& U.S. and State Survey standard disk in concrete, 33 inches below ground. Elevation: 1,464.423 feet.

Plane coordinates: (N), x = 2,446,751.96 feet; y = 273,673.04 feet.

A20-11-9E (Kana.Geod.S.)(Riley County, L.E.Conrad, 1934).--About 14.15 miles southeast of Manhatten, 12.3 miles northwest of Alms, Wabaunsee County, (along country roads), in SE\$5E\$ ecc. 20, T.11 B., R.9 E., Zeandale Township, on land owned by C.W.Allandorph, (Williams foreman), C.2 mile west of gate of station A21-11-9E, 0.3 mile west of twest gatepost of same etation, and 18.1 feet N.15*W. of west gatepost on north side of Township road. Station is a U.S.C.& C.S. and State Survey standard disk in concrete, 33 inches below ground. Elevation: 1,439.082 feet.
Flane coordinates: (N), x = 2,444,989.85 feet; x = 273,621.39 feet.

A30-11-9E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).—
About 13.6 miles northwest of Alma, Wabaunsee County, 13 miles
southeast of Manhattan (along country roads), in SWANES sec. 30,
7.11 3., R.9 E., Zeandale Township, on land of W.E.Blassing, 9.55
miles west (through pasture to road) of station A20-11-9E 0.8
mile southwest along Township road, 726.4 feet east of intersection
of wire-and-rock fence (rock fence on north-south 1/2-mile line),
112 steps south of southeast-corner stone of NEISWE of sec. 30,
100° (magnetio) from same corner stone, 48.6 feet west of west
gatepost in corner of fence, and 5 feet north of east-west fence.
Station is a U.S.C.& 0.8. and State Survey stendard dick in concrete, 33 inches below ground. Elevation: 1,414.976 feet.

Plane coordinates: (N), x = 2,439,168.61 feet; y = 271,589.31
feet.

B30-11-9E (Kans.Good.S.)(Riley County, L.E.Conrad, 1934).-About 13.9 miles northeast of Alma, Wabaunsee County, 12.75 miles
southeast of Manhattan (slong country roads), in BE2NW\$ acc. 30,
7.12 B., R.9 E., Zeandale Township, on second level of hill north
of private east-west road, on land owned by W.E.Blasing, 744.5
feet, 255' (magnetic) from stone with cross on it, near stone
fence in southwest corner of NW\$NE2 of sec. 30, 232 steps, 190°
(magnetic) from stone pile on high mound, 250° (magnetic) from
station ATO-11-9E, 119 steps north of corner of stone fence, 116.5
feet from corner stone at southeast corner of NW\$NW\$ sec. 30, and
northwest of cattleyard with grove of trees in it. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, 35 inches
below ground. Elevation: 1,328.316 feet.
Plane coordinates: (N), x = 2,437,750.22 feet; y = 271,521.95
feet.

A25-11-8E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).--About 14.2 miles southeast of Manhattan, 13.5 miles northwest of Alma, Wabaunsee County, (along country roads), in SM\$6E\$\(\text{\$\chi}\$ eec. 25, 1.11 \) S., R.S. E., Zeandale Township, on land of R.O.Yeage, 2,170 feet (measured on surface of ground) due west of southeast corner fence post of sec. 25, and 1.1 feet due south of wire fence. Station is 8 U.S.C.& G.S. and State Survey standard disk in concrete, 35 inches below ground. Elevation: 1,426.643 feet. Plane coordinates: (N), x = 2,434,022.38 feet; y = 267,589.32 feet.

B25-11-6E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 14.3 miles southeast of Manhattan, 13 miles northwest of
Alms, Wabsunsee County, (along country roads), in SW4SW4 sec. 25,
T.11 S., R.S.E., on land owned by R.D.Yesge, 4,580.3 feet (measured on surface of ground due west of southeast corner fence
post of sec. 25), 2,410.3 feet due west of station A25-11-6E, and
3.4 feet due north of east-west section-line fence between sections 25 and 36. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, 35 inches below ground. Elevation:
1,408.245 feet.

Flame coordinates: (N), x = 2,431,619.81 feet; x = 267,505.01
feet.

A35-11-8E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 13.5 miles northwest of Alms, Wabaunsee County, 12 miles
southeast of Manhattan, (along country roads), 1n Negata 200. 35,

T.11 S., R.8 S., Zeandale Township, on land owned by Herman Koepsel, of Alma, 632 steps, 350° (magnetic) from intersection of north-south road with Riley-Wabaumee County line, 225° (magnetic) from the Koepsel ferminouse, and I foot due west of east fonce on north-south road (60 feet between fences). Station is a 9.8. C.8 0.8. and State Survey standard disk in concrete, 33 inches below ground. Elevation: 1,392.564 feet.

Plane coordinates: (N), x = 2,427,773.22 feet; y = 264,062.57 feet.

GSO-11-9E (Kana. Geod. S.) (Hiley County, L.E. Conrad, 1934)...
About 12.9 miles southeast of Manhattan Post Office building, on high ridge running east-west, in NESNES sec. 30, 7.11 S., R.9 E., in Zeandale Township, 278 passes mouth of north section-line fence, and 100 paces west of east section line. Station is a U.S. C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,432.998 feet.

Plane coordinates: (R), x = 2,440,616.53 feet; x = 272,128.15 feet.

D30-11-9E (Kana.Good.S.)(Riley County, L.E.Conrad, 1934).--About 12.6 miles southeast of Manhattan Poat Office building.
1-1/4 miles east of Mineral Springe schockhouse, on high point at west and of ridge running east-west, northeast of the Blasing farmhouse, in Nb2NW2 sec. 30, 7.11 S., R.9 E., on the Blasing-property, and 16.3 feet N.25°E. of old stone landmark. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,411.446 feet.
Plane coordinates: (N), x ∘ 2,437,970.73 feet; x ∘ 272,217.20 feet.

A24-11-8E (Kane. Geod. S.) (Riley County, L.E. Conrad, 1934).-About 11.4 miles southeast of Manhettan Post Office building, in
SWigNi sec. 24, T.11 S., R.S.E., on property of C.W. Falk in
Zeandale Township, on prominent outcropping of limestone northeast of Mineral Springs schoolhouse, 241 paces N.70°E. (magnetic)
of northeast corner of Mineral Springs schoolhouse, 7 paces north
of where rock outcrop breaks into south slope, and 5 paces east
of where outcrop breaks into west slope. Station is a U.S.C.&
G.S. and State Survay standard disk in concrete, projecting 3 inches above ground. Elevation: 1.274.708 feet.
Plane coordinates: (N), x = 2.431,718.48 feet; y = 273,142.75
feet.

A26-11-8E (Rans.Geod.S.)(Riley County, L.E.Conrad, 1934),--About 10.4 miles by highway coutheast of Manhattan Post Office building, in northwest corner of NWANWA sec. 26, T.11 S., R.S.E., on the J.J.Smiley property, 1.6 feet east of fence line between Riley and Geary Counties, and 60 paces south of north section-line fence. Station is a U.S.C.A.G.S. and State Survey standard dick in concrete, projecting 3 inches above ground. Elevation: 1,26,977 feet.

Plane coordinates: (N), x = 2,425,659.87 feet; y = 272,587.88

B35-11-8E (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934)...-About 11.5 miles (highway) southeant of Manhattan Post Office building, near point of first high prominent ridge on west side of road, 0.7 mile south of the J.J. Smiley ranch house, near north line of SwiMwi sec. 35, T.11 S., R.E., Zeandale Township, 64 paces west of present suto road, and approximately 60 feet above road level. Station is a U.S.C.& O.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,361.260 feet.

Plane coordinates: (N). x = 2.826.802.11 feat. x = 265.428.32

Plane coordinates: (N), x = 2,426,892.11 feet; y = 265,934.31

A2-12-8E (Kans.Geod.S.)(Wabaunsee County, L.E.Conrad, 1934).
--About 13.2 miles northwest of Alms, 12.3 miles southeast of
Manhattan, Riley County, in NWANE sec. 2, 7.12 S., R.6 E.,
Washington Township, on the I.M.Aye property, 31.8 feet east of
east fence of north-south road; Riley County road is 60 feet
fence to fence, and Wabaunsee County road 45 feet fence to fence,
and 1 foot south of east-west county line fence. Station is s
U.S.C.& G.B. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,392.060 feet.
Plane coordinates: (N), x = 2,438,054.96 feet; x = 262,244.57
feet.

A33-11-SE (Kans.Geod.S.)(Geery County, L.E.Gonrad, 1934).—About 17 miles northeast of Junction City, 11 miles southeast of Manhattan, Riley County, in BESNM; sec. 33, T.11 S., R.S. E., Jackson Township, on the J.M.Aye cattle range, 50° magnetic) from section corner common to sections 4, 5, 12, and 33, Tps.11 and 12, about 3,509 feet due east of section line between sections 32 and 33, and 1.5 feet due south of quarter-section line, 50 rode north of section line between sections 32 and 34. State Survey standard disk in concrete, projecting 6 inches above ground. Elevation: 1,446.683 Plane coordinates: (N), x = 2,417,630.53 feet; y = 263,513.86

B33-11-8E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934)...-About 17 miles northeast of Junction City, 10.5 miles southeast of Manhattan, Riley County, in Swidwig sec. 33, T.11 S., R.S. E., Jackson Township, in the J.M. Aye cattle range, 1,744.4 feet 22 (magnetic) from section corner common to sections 4, 5, 32, and 31, Tps.11 and 12, and 922.7 feet sect of section line between sections 32 and 33. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation 1,447.140 feet.

Plane coordinates: (N), x = 2,416,06C.09 feet; y = 263,505.16 feet.

A31-11-8E (Kans. Geod. S.) (Geary County, i. E. Conrad, 1934).-About 18.8 miles east of Junction City, 9.8 miles south of Manhattan, Riley County, in 8E28E4 eec. 31, 7.11 S., R.8 E., Jackson
Township, on the Nickelson brothers cattle range, narrow strip
of tillable land to south of point, north of ravine, on peak of
high round rooky knoll surrounded by prairie, 1,075,4 feet 312°
(magnetic) from southwest corper of section 32, 853, feet 220°
(magnetic) from cottomwood (tree is 22.5 feet west of sectionline fence), 683.8 feet due west of section line between sections

11 and 12, and 219.2 feet due east of east fence of State Highway 13. The following bearing is from station: 150° (magnetic) to shed in ravine. Station is a U.S.C.& O.S. and State Survey standard disk in concrete. Elevation: 1,419,252 feet.

Flame coordinates: (N), $\chi \approx 2.409,205.09$ feet; $\chi = 262,966.30$

Bi:-11-38 (Kans. Seod. S.) (Geary County, L.E. Conrad, 1934),-About 15 miles east of Junction City, 10 miles south of Mashattsn,
Biley County, in Swidelie sec. 31, T.11 S., R.S.E., Jankson Township, on property of Nickelson brothers, 1,024,5 feet 270° (magnetic) from 80-rod stone at southwest corner Swide sec. 31,582.5
feet 60° (magnetic) from woutheast corner of the Nickelson brothers
house, 352.5 feet north of stone fonce, and 236° (magnetic) to
station Ail-11-SE. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, flush with ground. Elevation: 1,327.119
feet. feet.

Plane coordinates: (N), x = 2,407,522.00 feet; y = 262,143.53

A6-12-6E (Kans.Good.S.)(Geary County, L.E.Conrad, 1934).-About 15.5 miles east of Junction City, 13 miles south of Manhatten,
Riley County, in NW\$2W\$\forall \text{miles} \text{ east. 6, 7.12 S., R.3 E., Jackson Townahip, on the Nelson cattle range, 537.6 feet for (magnetia) from
northeast sorner of stone house, 286 feet due north of centerline
of KcDowell Creek Road, and 27.5 feet due south of east-west halfsection line. The following bearings are from the station: to
small concrete bridge 290° (magnetic); from frame house, 340°
(magnetic). Station is a U.S.C.4 G.S. and State Survey standard
disk in concrete, projecting 1 inch above ground. Elevation:
1,265,598 feet.

Plane coordinates: (N), x = 2,400,082.27 feet; x = 259,418.19
feet.

All-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad. 1934).-About 15.5 miles southwest of Manhatten, Riley Gounty, 13.5 miles
east of Junction City, in NEANM4 sec. 11, T.12 S., R.7 E., Wingfield Township, 458.2 feet 190° (magnetic) from northeast corner
fence post of NM4 sec. 11, and 208.8 feet west of north-acuth wire
fence at half-section line, 55° (magnetic) from NUMBOLDT. Station
is a U.S.C.2 G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,374.158 feet.
Plans coordinates: (N), x = 2,391,020.34 feet; y = 256,233.62

HUMBOLDT (U.S.C.& G.S.)(Geary County, F.D.Grenger, 1889;1922).

-About 14 miles enst of Junction City, 35 miles couth of Westgate Poet Office, on the dividing ridge between Humboldt and McDawell creeks, and about 200 feet north and 880 feet west of the southeast corner of NE2 sec. 10, 7.12 S., R.7 E., Wingfield Township, varying in width from 1,500 feet to 1 mile, and falls off more abruptly on its eastern than on its western border. The station is on the highest point of the ridge, near its northeastern border, in pacture land that has never been under cultivation. (The land is now owned by E.A.Chase.) The underground mark is a standard bronze station tablet in a block of concrete 30 inches below the surface. The station mark is a standard bronze tablet in concrete. Reference mark No.1, a standard bronze tablet in a solid outcrop of rook, is 167 meters (549 feet) N.75°E. (magnetic) from the station. Reference mark No.2, similar to No.1, is in the solid rook outcrop, 181.42 meters (595.2 feet) 8.20°E. (magnetic) from the station. Bone witness poste, with diagonal grooves terminating in arrowheads pointing to the station, are in the meridian, about 8 feet north and south of the station, are in the meridian, about 8 feet north and south of the station, are in the meridian, about 8 feet north and south of the station. The following distances and azimuths are from the station: southwest corner section 10, 1,598 meters (5,242 feet), 57°07'; quarter-section stone, 1,345 meters (4,406 feet), 87°09'; clump of trees at the Waper house, 1-1/2 miles, 109°55'; stone pile on cons-chaped hill near Ogden, 158°03'; hill at end of range to northeast, about 8 miles, 136°; hill east of station, shout 2-1/2 miles, 26°35'. Three truck-loads of rook were placed around the station mark. (There is a power line about 1/2 mile south of this station.) Elevation: 1,412.377 feet.

Plane coordinates: (N), x = 2,387,826.98 feet; y = 258,102.99 feet. Plane coordinates: (N), x = 2,387,826.98 feet; y = 254,102.99

Geary and Riley Counties

From U.S.C.& G.S. triangulation etation HUMBOLDT (described elsewhere in this publication) to U.S.C.& G.S. triangulation station ERRICSSEN.

AlO-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 18.4 miles couthwest of Manhatten, Riley County, 14.5 miles
east of Junction City, in Nugher sec. 10, T.12 S., R.7 E., Wingfield Township, on the E.A. Chase property, about 0.45 mile N.20*W.,
imagnetic) of NUHBOLDT, #26.5 feet east and 285.5 feet south of
west stone gatepost of wire fence on east-west section line (east
gatepost is about 900 feet west of corner common to sections 2, 3,
10, and 11). Station is a U.S.C.& G.S. and State Survey standard
disk in concrete projecting 4 inches above ground. Elevation:
1,96,955 feet. 1.196 955 reet.

Plane coordinates: (N), x = 2,387,281.25 feet; y = 256,292.68

A3-12-7E (Kana, Good, S.) (Geary County, 1 series, ad., 1914).
About 12.3 miles continued of Manhattan office of sire, 11. /allegeast of Junction City, in SIAMN\$ sec. 3, 7.12-3, 8.7 m., Mingsfield Township, on the John Hitchenium, property, 41.5 feet.
N.50°W. of intersection of seat line of another and Mobowell Creek Road, 456.8 feet south of sact contents and Mobowell Creek Road, 456.8 feet south of sact contents of mone profile frame, and 5.1 feet west of fonce. The following bourings are from station: To east side of Fulley's house, 100°; another more of rock barn, 160°. Station is a U.3.0.6 0.5, and State Gurvey standard disk in concrete projecting & inches answer ground. Slevation:).158.289 feet.
Figure coordinates (N), 5 > 2,187,704.19 feet; y = 261,423.02 feet.

A34-11-7E (Rane.Good.S.)(Gears County, L.E.Conrad, 1934)....
About 12 miles continuent of Manhattan. Biley County, 12 miles east of Junction City, in SW\$352 enc. 14, Til S., R./E.,
Wingfield Township, on District 7 school grounds adjoining the
P.E.Tully property, 79.95 feet (magnetic) 250° aximuth from northwest corner (rock section) of achoolhouse, 71.5 feet azimuth 258°
of centerline of well, and 57.8 feet (magnetic) azimuth 75° from
fence corner. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, fluch with ground. Elevation: 1,15)-511

Plane coordinates: (N), x . 2,386,545,26 feet: y + population, 17

B14-11-7E (Kans. Geod. 8.) (Geary County, L.E. Conrad, 1914).About 11.7 miles southwest of Manhattan, Riley County, 11.5 miles
east of Junction City, in SM\$186\$ sec. 34, T.11 8., R.7 E., Mingfield Township, on the St. Joseph Catholic Church grounds, adjoining property of Mr. John Brannick, 119.9 feet east of northsouth half-section whre fence, and 44 feet north of east-west.
half-section line, 72.9 feet 182° (magnetic) szimuth from northwest corner and 14.45 feet azimuth 250° (magnetic) from southwest
corner of the church. Station is a U.S.C.& G.S. and State Surwey standard disk in concrete, flush with ground. Elevation:
1,147.096 feet.

Plane coordinates: (N), x = 2,385,925.25 feet; y = 264,470.40

Plane coordinates: (N), x = 2,385,925.25 feet; y = 264,470.40

A25-11-7E (Kans.Geod.S.)(Genry County, L.E.Conrad, 1914).--About 10.5 miles east of Junction City, 10.1 miles couthwest of Manhattan, Riley County, in SE4NE2 sec. 25, T.11 S., R.7 E., Wingfield Township, on farm of Harold Westgate, 111.65 feet 224° (magnetic) from southwest corner of stone house, 362.) feet 135° asimuth (magnetic) from auarter-section line corner postwest of road, 128.7 feet azimuth 200° (magnetic) from northwest corner of stone house. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 4 inches above ground. Elevation: 1,125.290 feet.

Plane coordinates: (N), x = 2,381,902.80 feet; y = 270,666.95 feet.

B28-11-7E (Kane. Geod. S.) (Geary County, L. E. Conrad, 1934).-About 10.35 miles southwest of Manhattan, Riley County, 10.2
miles northwest of Junction City, in Swane county, 10.2
miles northwest of Junction City, in Swane county, 10.25
mile from station A28-11-7E, north-northeast of windmill, 1,642.2
feet 240° (magnetic) from southwest corner of rock house, 237 feet
north of north fence of road (width of road 36.3 feet), and 195.3
feet west of north-south fence. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, flush with ground. Elevation: 1,160.272 feet.

Plane coordinates: (N), x = 2,380,497.85 feet; y = 270,043.65
feet.

A15-11-7E (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934).-About 12.5 miles northeest of Junction City, Geary County, 5.2
miles southwest of Manhattan (along country roads) on school
grounds of District 12. in SMANM, sec. 15, 7.11 S., R.7 E., Ashland Township, about 1.55 miles north of Riley-Geary County line,
95.6 feet 150° (magnetic) from southeast corner of bridge, 36.8
feet 198° (magnetic) from well pump, 27.1 feet 208° (magnetic)
from northwest corner of schoolhouse, and 21.6 feet 290° (magnetic)
from southwest corner of schoolhouse. Station is a U.S.
C.& G.S. and State Survey standard disk in concrete post, 36 inches below ground. Elevation: 1,078.115 feet.

Plane coordinates: (N), x = 2,382,734.22 feet; y = 250,261.48
feet. See and of this list.

A16-11-7E (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934).-About 12.7 miles northeast of Junction City, Geary County, &
miles eauthwest of Manhetten (slong country roads), in NEINES
sec. 16, 7.11 S., R.7 E., Ashland Township, on land owned by
Henry Erichsen, 449.1 feet 76° (magnetic) from northeast corner
of culvert, near northwest corner of section 15, 275.85 feet 25°
(magnetic) from northeast post of bridge on curve of north-south
road, at fork of road, 45° (magnetic) from windmill on the Zigler
farm, 14.6 feet due south of north fence of east-west road, and
3.7 feet 240° (magnetic) from U.S.O.S. mark. Station is a U.S.
C.& O.S. and Stete Survey standard 41st in concrete, 35 inches
below ground. No elevation has been determined for this station.
Plane coordinates: (K), x = 2,322,612.71 feet; y = 281,636.27

A17-11-7E (Kana, Geod. B.) (Riley County, L.E. Conrad, 193h), -About 11.4 miles northeast of Junction City, Geary Gounty, 8.6
miles southwest of Manhattan, 3.5 miles southeast of Ogden (along country roads), in Maiobi ecc. 17, 7.11 B., R.7 E., Anhiand
Township, on land owned by John Wood, 200 steps west of centerline of road at foot of hill, 15.6 feet south of east-west halfsection line fence in section 17, and 155° (magnetic) from conschaped hill with pile of stone at summit, (hayfield slopes down
toward road morth of tablet). Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, 36 loches below ground.
Elevation: 1,225.555 feet.

Plane coordinates: (N), x = 2,476,/h7.08 feet; y =280,108.03
feet.

B17-11-7E (Kens.Good.S.)(Biley County, L.E.Conrad, 1934),... About 11.6 miles northeast of Junction City, Geary County, 1.75 miles east of Ogden (along country roads), in NW45W4 nec. 17,

T.11 %, B.7 t., [wier Tounehlt, on land owned by John Mood, 0.2 mile west. $\mathcal{F}^{(2)}$ (magnetic) from Al%-11-7E, 551.6 feet 110° (magnetic) from the sat-west half-mile fence of section 17 and north mouth nection-11ac fence, between sections 17 and 17, due neutr. of pile of rock on hill. 226.3 feet south of seat-west half-mile fence in exciton 17, and 10.1 feet southeast of south fence along road (7.% feet wide from fence to fence. Station is a 0.8.0.4 8.8. and State Survey standard disk in concrete, 16 inches below ground. Elevation i.236.136 feet.

Elnne coordinates: (11), $\underline{x} = 7.475,255.71$ feet; $\underline{y} = 279,857.96$ feet.

AIX-11-76 (Kara. Geod. S.) (Riley County, L.E. Conrad, 1934)...
About 9.2 miles northeast of Junction City, Geary County, 1.2
miles anotheast of Ogdan (along country roads), in SW\$5E4 sec. 18,
7.11 S., R.7 E., Ogdan Township, on land owned by J. Boller, on
went slope of high hill (serving as cattle range), 638 feet azimuth 50° (magnetic) from north-south stone fence on half-mile
line of section 18, 39 feet azimuth 340° (magnetic) from centerline of seme sect-west road, 12.4 feet azimuth 340° (magnetic)
from east-west wire fence along road, 142° (magnetic) from Ogden
Catholic Church, and 65° (magnetic) from windmill on the Boller
farm. Station is 8 U.S.C.& G.S. and State Survey standard disk
in concrete, 15 inches below ground. Elevation: 1,200.172 feet.
Plane coordinates: (N), x = 2.370,138.55 feet; y = 278,389.69
feet.

Big-11-7E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 9 miles northeest of Junction City, Geary County, 0.9 mile
south of river bridge in Ogden, in SE\$SW\$ sec. 18, T.11 S., R.7 E.,
Ogden Township, on land of Joseph Boller, 599 feet 260° (magnetic)
from intersection of north-south half-mile section fence with eastwast road, 249.7 feet 50° (magnetic) from windmill, 18.4 feet 270°
(magnetic) from centerline of road, and 18° (magnetic) from north
end of stone bridge. Station is a U.S.C.& O.S. and State Survey
standard disk in concrete, 36 inches below ground. Elevation:
1,103.491 feet. 1,103,491 feet. Plane coordinates: (N), x = 2,368,977.12 feet; y = 278,036.84

A7-11-7E (Kons.Geod.S.)(Riley County, L.2.Conrad, 1934).-About 10 miles southwest of Manhattan, 1 block south of Kansasa
River bridge in Ogden, in SE\$SW\$ esc. 7, T.11 S., R.7 E.., Ogdon
Township, on land owned by A.Estes, 516.2 feet 170° (magnetic)
from coutheast corner of east trues on bridge, 72.3 feet due west
of east fence of north-south road, 12.3 feet due west of west fence
of seme road, 61.2 feet 110° (megnetic) from coutheast corner of
the Estes farmhouse, and 60.6 feet 280° (magnetic) from corner
post at intersection of east fence of north-south road and south
fence of east-west section-line road. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, 35 inches below ground.
Elevation: 1,045,426 feet.

Plane coordinates: (N), x = 2,369,342,34 feet: y = 262,648,13 Plane coordinates: (N), x = 2,369,342.34 feet; y = 282,648.13

B7-11-7E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934)....
About 9.5 miles southwest of Manhattan (along country roads), 0.7 mile south of Ogden Post Office, in block 71, sec. 7, T.11 S.,
R.7 E., on road right-of-way, adjacent to land owned by W.F. Howard on Elm Street, 1,02% feet 350° (magnetic) from square mark on stone at northwest corner of bridge abutment, 351.2 feet 146° (magnetic) from cottonwood, 48.8 feet 224° (magnetic) from fence of north-south road (52.3 feet wide), and 2.) feet 300° (magnetic) from telephone pole. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 33 inches below ground. Elevation: 1,041,320 feet.

1,081,320 feet.

Flane coordinates: (N), x = 2,368,809.46 feet; y = 284,537.93

C7-11-7E (Kana.Geod.8.)(Riley County, L.E. Conrad, 1934)...-About 9-1/2 miles southwest of Manhattan on U.S. Highway 408, 0.5 mile southwest of post office in Ogden, on Walnut Street, in lot 16, sec. 7, T.11 5., R.7 E.. Cgdeneburg, on street right-of-way, in block 49, 676.2 feet 1485 (magnetic) from senterline of Union Pacific Railroad track, 47.8 feet 50° (magnetic) from west fence of road, and 1.8 feet 238° (magnetic) from sact fence of seme road. Station is a U.S. C.& C.S. and State Survey standard disk in concrete, 35 inches below ground. Elevation: 1,048.434 feet.

Plane coordinates: (N), x = 2,367,254.70 feet; y = 285,892.15 feet.

Al-11-6E (Kans. Geod. 8.) (Riley County, L.E. Conrad, 1934).-About 9-1/2 miles scuthwest of Hanhattan, 0.2 mile northwest of
Ogden Post Office, in SE\$ sec. 1, 7.11 S., R.6 E., block 3, on
land cwned by St. Patricke Catholic Church, 135.2 feet 140° (magnetic) from southwest corner of paraonage, 126.1 feet 120° (magnetic) from southeast corner of church, and 27.4 feet north of
concrete fence. Station is a U.S.C.& G.S. and State Survey standard dick in concrete, 36 inches below ground. Elevation:
1,122.783 feet.
Plane coordinates: (N) x = 2.365 feet Co.

Plane coordinates: (N), x = 2,365,583.02 feet; y = 288,307.18

TT-1-M (U.S.G.S., 1926) (Riley County, Kane. Geod.S., 1934).-In Cgden, about 0.2 mile northwest of post office on land adjacent
to St. Patricks Church, in SPi sec. 1, T.11 S., R.E., block 3,
178.3 feet, 80° (magnetio) from lower sest corner of cornerstone
of church, 94.7 feet, 40° (magnetic) from Geodetic traverse and
BM 2-16, and 9.4 feet 140° (magnetic) from southeast corner post
of wall around churchyard. Station is a U.S.G.B. standard disk in
concrete.

No elevation or coordinates have been determined for this

A6-11-7E (Kane. Geod. 8.) (Riley County, L.E. Gonrad, 1954).-About 9 miles southwest of Manhattan, 0.7 mile northeast of Ogden
Fost Office, in NW42E‡ acc. 6, T.11 8., R.7 E., adjacent to U.B.
Highway WG, on land owned by Josephine Weichelbaum, 570.5 feet
50° (magnetic) from wire fence on north-south half-section line,
88 steps 170° (magnetic) from northwest corner of the Bagdad
Pavillon, 86.7 feet 270° (magnetic) from wire fence on west side
of pavillon, 35.7 feet 170° (magnetic) from centerline of highway,
and 1.1 feet 140° (magnetic) from wire fence on west side of

highway. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 35 inches below ground. Elevation: 1,133 feet. Plane coordinates: (N), $\underline{x} = 2,169,600.38$ feet; $\underline{y} = 289,818.87$

A36-10-6E (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934)...
About 9.6 miles southwest of Manhattan (along country rosds), 1.5
miles northeast of post office in Ogdon, in SE\$E\$ sec. 36,
T.10 S., R.6 E., on road right-of-way, 115.1 feet 340° (magnetic)
from corner stone at intersection of sections 36,31, 1 and 6, 94.6
feet north of wire fence on north side of east-west road (width
40.4 feet) and 0.8 foot west of wire fence on west side of northsouth road (fence to fence 36.9 feet wide). Station is a U.S.C.
& G.B. and State Survey standard disk in concrete, 36 inches below ground. Elevation: 1,124 feet.

Plane coordinates: (N), x = 2,568,661.72 feet; y = 293,413.63
feet.

A25-10-6E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1914).--About 11.25 miles southwest of Manhattan (slong country roads), 2.85 miles northeast of Ogden Fost Office, in 3E4ME4 sec. 25, 7.10 8., R.6 E., on land owned by O.B.Reed, 185 feet north of north hadge fence on north side of east-west half-mile road (width 41 feet), 1.3 feet west of west fence of north-south section-line road (width 40 feet), and 90° (magnetic) from the C.S. Reed windmill. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, 36 inches below ground. Elevation: 1.143 feet.

Plane coordinates: (N), x = 2,368,514.27 feet; y = 301,399.51

C2h-10-6E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 11.75 miles southwest of Manhattan (slong country roads),
3.3 miles northeast of Ogden Post Office, in SE\$SE\$ sec. 24,
7.10 S., R.6 E., on land of Joe Forch, 140° (magnetic) from farmhouse, 178 feet 170° (magnetic) from center of windmill, 66.5 feet wast of west fence of north-south road (width from fence to
fence 16 feet), and 0.9 foot north of wire fence (wire-rock fence)
on east-west section line. Station is a U.S.C.& G.S. and State
Survey standard disk in concrete, 36 inches below ground. Elevation: 1,165 feet.
Plane coordinates: (N). x = 2,168,193,04 feet. y p.803 g2h 17

Plane coordinates: (N), x = 2,368,393.04 feet; y = 303,824.37

A13-10-6E (Kans.Geod.S.)(Riley County, L.E.Conrad. 1934).-About 7 miles southwest of Manhattan (elong country reads), 4.55
miles northeast of Ogden Post Office, in SEASEA sec. 13, 7.10 B.,
R.6 E., on land owned by Harry Wood, 773.6 feet north of stone
fence between sections 18 and 19, 180° (magnetic) from stone
formhouse, 138° (magnetic) from ERRICSBON, and 0.7 foot west of
west wire fence of north-south road, (width 26.5 feet). Station
is a U.S.C.& O.S. and State Survey standard diek in concrete, 36
inches below ground. Elevation: 1,327 feet.

Plane coordinates: (N), x = 2,368,370.87 feet; x = 309,753.55
feet.

B13-10-6E (Kans.Good.S.)(Riley County, L.E.Conrad, 1934)...
About 5.1 miles northeast of Ogden, 4.0 miles south of Keats, (along country roads), on township road right-of-way, in SE_NE_x sec. 13, T.10 S., R.6 E., 74.4 feet west of north-south wire fence on east side of road between sections 13 and 18, 106.6 feet east of fence on west side of road, 0° (magnetic) from windmill, and 11.75 feet south of reference stone with arrow. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 33 in-ohee below ground. Elevation: 1,285 feet.

Plane coordinates: (N), x = 2,368,287,40 feet; y = 312,983.07 feet.

ERRICASEN (U.S.C.& G.S.)(Riley County, F.D.Granger, 1889; 1922; Kans.Geod.S., 1934)...-About 9 miles west of Manhattan, 13 miles east of Milford, Geary County, on main road between these towns crossing Overalls Ridge, and in SEESW& sec. 12, T.10 S., R.6. E., 146 meters (479 feet) north of centerline of road on land belonging (1922) to A.J.Willner. The underground, station, and reference marks are described in notes 1, 2, and 3. The two stone witness posts contein standard bronze reference tablets. One is north 2.568 meters (7.77 feat), the other south 2.408 meters (7.90 feet) from station. The southwest corner of section 12 is 605.9 meters (1,988 feet) distant in azimuth 77°07'. Additional references are as follows: Northeast corner of the Willner house, 22.83 meters (74.9 feet), B.20°W. (magnetic), southwest corner of stone barn, 24.4 meters (80 feet), N.19°W. (magnetic). Elevation: 1,351.129 feet.

Plane coordinates: (N), x = 2,365.043.24 feet; y = 314.814.58 feet.

Geary County

From U.S.C.& G.S. triangulation station HUMBOLDT (described elsewhere in this publication) to U.S.C.& G.S. triangulation station ROBEINS.

A16-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 12.0 miles southeast of Junction City Post Office building,
on the Chase ranch, 0.6 mile east of the Chase ranch house, in
Newikei sec. 16. T.12 B., R.7 E., Wingfield Township, at south
side of 39-foot highway, 156.5 feet east of centerline of east
stone gatepost, about 135 feet N.40°W., of northwest corner of
old abandoned farmhouse, 33.5 feet north of west twin cedar, and
if set north of east-west fence line. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, projecting 2 inches
above ground. Elevation: 1,285.56 feet.
Plane coordinates: (N), x * 2,382,002.79 feet; y * 250,391.77
feet.

B16-12-7E (Kans. Geod. B.) (Geary County, L.E. Conrad, 1934). About 11.5 miles (highway) coutheast of Junction City Post Off in NW2NW2 sec. 16, T.12 S., R.7 E., Wingfield Township, on the

Chase reach, 0.15 mile east of ranch bouse, at north side of road on a pronounced ledge at the foot of very prominent knoll, and 191.5 feet north of fence line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,295.08 feet.

Plane coordinates: (N), $\underline{x} = 2,179,461.92$ feet; $\underline{y} = 250,889.99$ feet.

C16-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934)...

About 11.2 miles southeast of Junction City Post Office, in Swinwisec. 16, T.21 S., R.7 E., Wingfield Township, on ridge running cast-west across wooded ravine about 560 feet north of half-section line fence, 311 feet east of north-south section-line fence, 8.20°E. (magnetic) from stone corner post common to both fences, and due south of the Chase rench house. Station is a U.S.C.& B.B. and State Survey standard diek in concrete, flush with ground.

Flane coordinates: (N), x = 2,378,546.34 feet; x = 248,997.78 feet.

A17-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad., 1934).-About 10.3 miles southeast of Junction City Post Office building,
in NEAWE sec. 17, T.12 S., R.7 E., Wingfield Township, on property of the Chase ranch, on Sugar Loaf Mound. about 300 feet acuth
of fence line on 40-foot highway running east-west, about 150 feet
west of north-south section-line fence, and approximately 100 feet
above present roadbed. Station is a U.S.C.& G.S. and State Burvey
standard disk in concrete, projecting 3 inches above ground. Elevation: 1,311.96 feet.

Plane coordinates: (N), x = 2,375,442.74 feet; y = 250.739.85
feet.

B17-12-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 9.7 miles southeast of Junction City Post Office building,
in NW45W4 sec. 17, T.12 S., R.7 E., Wingfield Township, on property of Frank A. Rose, on a rocky bluff overlocking Humboldt Creek,
64% feet north of east-weet stone fance, 370 feet east of stone
section-line fence, and 50 feet south of limestone outcrop. Station is a U.S.C. & O.S. and State Burvey standard disk in a slab,
flush with ground. Elevation: 1,332.342 feet.

Plane coordinates: (N), x = 2,373,386.73 feet; y = 247.731.89
feet.

A24-12-6E (Kane. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 8.2 miles southeast of Junction City Post Office building,
in SWANE; see. 24, T.12 S., R.6 E., Jefferson Township, on the
Powers ranch property belonging to the Metropolitan Life Insurance
Company, on ridge leading northwest, on fence line, about 888 feet
north of a lone cottonwood. WOB feet south of rock outcrop, 312
feet 264° (azimuth) from small clump of trees in ravine, and 210.6
feet 264° (azimuth) from a lone elm. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, projecting 2 inches
above ground. Elevation: 1,339,41 feet.
Plane coordinates: (N), X = 2,166.593.71 feet; Y = 243,996.97
feet.

B24-12-6E (Kans. Geod. S.) (Geary County, L. E. Conrad. 1934).-About 7.9 miles southeast of Junction City Post Office building,
in BWANEE sec. 24, T.12 S., R.6 E., Jefferson Township, near crest
of divide running seast to west, 0.9 foot east of north-south halfsection line, 510.8 feet north of fence corner common to four
quarters, approximately 685 feet south of sast-west fence. Statio
is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,339.356 feet.
Plane occrdinates: (N), x = 2,365,301.31 feet; y = 243,521.43
feet.

A2)-12-6E (Kans. Good. S.) (Geary County, L.E. Conrad, 1934)...-About 7.3 miles southeast of Junction City Poet Office, in SE2KE2 sec. 23, T.12 S., R.6 E., Jefferson Township, on the Sam Colivan property, 29.3 feet east of east edge of State Highway 57, 1757.7 feet (along highway) northwest of the BO-rod line, 600 feet (along highway) north of center of second ravine south of section, between sections 14 and 23, 14.5 feet above center of highway, 2.8 feet outside present fence line, and N.60°E. (magnetic) of northwast corner of barn on the Colivan farmstead. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,196.58 feet.

Plane coordinates: (N), x = 2,361.085.35 feet; y = 243,181.69 feet.

B22-12-6E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 5.6 miles southeast of Junction City Post Office by State
Highway 57, thence 0.8 mile southwest along country roads, NE1
sec. 22, T.12 S., R.6 E., Jefferson Township, in churchyard of
St. Paul's Lutherson Church, 1.9 feet south and 6.1 feet east of
corneratone at southwest corner of church, in line of prolongation
of each side of church, and 22.5 feet west and 67 feet north of
northwest corner of a email schoolhouse located south of church
in line of prolongation of west side of school building. Bearing
on northeast corner of the Kramer home is 8.12°W. (magnetic). Stetion is a U.S.C.4 G.S. and State Survey standard disk in concrete,
projecting 1 inch above ground. Elevation: 1,163.005 feet.

Plane coordinates: (N), Z = 2,355,156.75 feet: Z = 244,025.00
feet.

A22-12-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 5.6 miles southeast (along State Highway 57), and 1.4 miles
southwest (on country roads) from Junction City Post Office, in
NviSE; sec. 22, 7.12 S., R.6 E., on west side of road outside of
property-line fence around the Paul Kramer property, Jefferson
Township, on east edge of cultivated field on west side of morthsouth road leading past Lutheran Church, 1,633.75 feet west of
north-south section line between sections 22 and 23, 676.1 feet
north of prolongation of north side of the A.L.Boger home, and
402.6 feet north of 50-rod line. Station is a U.S.C.& G.B. and
State Survey standard disk in concrete, projecting 2 inches above
ground. Elevation: 1,152.019 feet.
Flane coordinates: (N), x = 2,354,802.07 feet; y = 241,978.41
feet.

The M (U.8.9.8 1926) (Geary County Sans, Geod. S., 1914). — About 5.6 miles coucheast of Junction City Post Office, on west aide of northwest corner acc. 28, 7.12 3 8.6 E., Jefferson Township, 15 feet east of centerline of public road, near west edge of fisid, and about 1200 feet northwest of a farmhouse. Station is a U.8.0.8, mark. Elevation: 1,327.697 feet. y=240,102.50 feat.

A21-12-6E (Rans. Geod. S.) (Geory County, L. E. Conrad, 1934).-About 8.2 miles southeast of Junction City Post Office, in Shama
sec. 21, T.12 S., R.6 E. Jeffereon Township, on the John Arkeli
property, 269 passes west if half-section line fence, 172 passes
due north of lone cedar on the Lans Parber property, and 1.3 feet
north of section-line fence between sections 21 and 28. Station
is a U. S.C.4 C.8 and State Survey standard disk in concrete,
projecting 2 inches above ground. Elevation: 1,307.192 feet.
Plane coordinates: (K) x = 2,348.595.32 feet y = 240,157.15
feet.

Alg-12-6E (Kans. Geod. S.) (Geory County, L.E. Contai, 1934).-About 4.6 miles (along country roads) southeast of function City
Post Office, in 9E4982 sec. 19, 7.12 S., R.E.E., Jefferson Townmilp, on the Otto Strause property, in quarter-section north of
the Strause farmhouse, 1,859.75 feet north of ROBBINS, 277 pages
sast of prolongation of east side of house, 109.5 feet west of
north-south section-line fence, and 12.1 feet north of east-west
property-line fence. Station is a U.S.C.& G.S. and State Survey
stendard disk in concrete, projecting 7 inches above ground.
Elevation: 1,328.941 feet.
Plane coordinates: (N), x = 2,341,526.95 feet; x = 240,054.99
feet.

ROBBINS (U.S.C.& G.S.)(Geary County, F.D.Granger, 1869;1922).

-About 4-j/4 miles southeast of Junction City, in SEMME acc. 1,

7.11 S., R.6 E., at couth and of a field owned (1922) by Ole
Strauss, who lives 1/4 mile northwest of the station. The stazion is north of a small grove of sottonwood trees, J&.1 meters
(125 feet) west of the main road, and % 6 meters (15 feet) north
of the fence. West of the road is a peach orchard and ranch
building, the whole surrounded by a wire fence. (This ranch and
building have since disappeared.) The underground mark is a standard bronze tablet, set in concrete. 34 inches below the surface.
The station mark is a standard bronze tablet cet in a pyremidal
block of concrete. Reference mark mo.1, a bronze tablet, is 20
fest west from the center of the roadway, on the north-and-south
fence line, 27.386 meters (89.85 feet) east (magnetic) from the
station. Reference marks, 2, 3, and are standard bronze tablets set in stone poets, in an east-and-west line, 5.46 meters
(17.9 feet) south of the station. Azimuth and distances to these
reference marks and certain other points are as follows: Reference mark no.2, 325°11', 6.584 meters (21.93 feet); reference mark no.8,
35°00', 6.684 meters (21.93 feet); stone, northeast corner of
section 30, 183°19', 555.74 meters (38.23.) feet); quarter-section stone, 392°11', 157.95 meters (18.23.) feet); quarter-section stone, 392°11', 157.95 meters (58.2 feet); northeast corner of
section 30, 183°19', 555.74 meters (58.2 feet); northeast corner as
along east side of section 30, 776.7 feet south of east-west wire
fence between pasture and plowed land, and 89.9 feet wet of concrete reference mark with tablet in it, south of which is a group
of pine trees. Elevation: 1,330.246 feet.

Flane coordinates: (N), x = 2,341,555.46 feet; y = 238,196.37
feet.

Wabaunsee County

From U.S.C.& G.S. triangulation station ZEAN DALE (described elsewhere in this publication) to U.S.C.& G.S. triangulation station

A24-11-9E (Kans. Geod. S.) (Wabaunsee County, L.E. Conrad, 1934), --About 9.8 miles northweet of the Alma Post Office, in SW1MN ecc. 24, T.11 S., R.9 E., on property of lew Jones, 194.9 feet north of north wire fence of east-west rood (width of road 47 feet), and 1.5 feet east of east wire fence or north-south section-line road (width of road 35.5 feet). Station is a U.S.C. & O.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,547.635 feet.

Plane coordinates: (N), x = 2,462,031, 44 feet; x = 276,244,36 feet.

B24-11-9E (Knns. Geod. B.) (Wabaunsee County, L.E. Conrad, 1934), --About 9.5 miles northwest of the Alma Post Office, in ME20Wi sec. 24, T.11 S., R.9 E., on top of ridge in a tiliable field on property of the Kaness Life Insurance Company, 742.3 feet west of lone cottenwood on north-south half-section fence line, and 571.8 feet east of east wire fence of north-south quarter-section road (width of road 40.7 feet from fence to fence). Station is a U.S.C.8 G.B. and State Survey standard disk in concrete, I inches below ground. Elevation: 1,335.452 feet.

Plane coordinates: (N), x = 2,465,922.70 feet; y = 275,344.02 feet.

A30-11-10E (Kans.@cod.S.)(Wabaunses County, L.E.Conrad, 1934), --About 8.2 miles northwest of the Alms Post Office, in NW4NW2 esc. 30, 7.11 S. R.10 E., south of east-west township road right-of-way, 465 feet east of east wire fence of north-south section-line road (width of road 42.4 feet), and 1.5 feet north of south wire fence of east-west acction-line road (width of road 35.7 feet). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,294.978 feet.

No coordinates have been determined for this station.

A19-11-10E (Kans.Geod.B.)(Wabaunaee County, L.E.Conrad, 1934)...About 7.4 miles northwest of the Alma Post Office, in BEASE sec. 19, 7.11 D., R.10 E., on road right-of-way, north of sast-vest township road, 424.7 feet wast of north-south section-line fence (between sections 19 and 20), and 1.4 feet south of north wire fence of same road (width of road 50.5 feet from fence to fence). Station is a U.S.C.& G.S. and State Burvey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,330,493 feet.

Plans coordinates: (N), x = 2,472,050.01 feet; y = 273,534.57 feet.

A29-11-10E (Kans.Geod.S.)(Wabsunsee County, L.E.Conrad, 1934),--About 6.9 miles northwest of the Alma Poat Office, in NEANVA sec. 29, 7.11 3. R.10 E., on road right-of-way, south of sest-west conship road, 577.4 feet west of west wire fence of north half-section road (width of road 49 feet from fence to fence), 1.5 feet north of south wire fence of same road (width of road 42.3 feet from fence to fence), 12h° (magnette) from windmill. Station is a U.B.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,350.397 feet.

Plane coordinates: (N), X = 2,474.566.21 feet; Y = 273.605.16 feet.

A27-11-10E (Kans. Geod. S.) (Wabaunase County, L. Z. Conrad, 1934). --About 4.65 mlies north of the Alma Post Office, along State Highway kll. 0.5 mlle west by country road, in NWANW sec.27, 7.11 S., R.10 E., on property of the King estate, 16.1 feet east of east wire fence of north-south section-line road (width of road 60 feet from fence to fence), and 1.6 feet south of acuth wire feace of east-west township road (width of road 40 feet). Station is a U.S.C. & G.S. and State Survey starderd disk in concrete, projecting 1 inch above ground. Elevation: 1,206.715 feet.

No coordinates have been determined for this station.

A22-11-10E {Kans.Gaod.S.}{Wabauneee County. L.E.Conrad. 1934}.--About 4.75 miles north of the Alma Fost Office, along State Highway Kil, in Sr&Mis sec. 22, T.11 S., B.10 E., on school grounds of District 14.61 feet suth of well, 61.8 feet S.87°E. imagnetic) of southwest corner, 17.9 feet S.12°E. (magnetic) of southwest corner of school building, and 47.2 feet north of south fence of east-west section-line road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,165.904 feet.

Plane coordinates: (N), K = 2,485,760.55 feet; Y = 273,899.76 feet.

A3-12-10E (Kana. Geod. 8.) (Wabaunese County, L.E. Conrad, 1934)...-About 2.8 miles north of the Alma Post Office, along State Highway Kll. in NEAW4 sec. 3, T.12 S. R.10 E., on road right-of-way, west of road where highway to Alma turns east, 135° (magnetic) from frame farmhouse, 279 feet south of congrete post south of east-west section-line road (width of road 45.2 feet), and 10. L feet N.45-E. of west wire fence of highway (width of road 139.8 feet from fence to fence). Station is a U.S.C.& G.S. and State Survey standard disk in congrete, projecting 3 inches above ground. Elevation: 1,129.438 feet.

Plane coordinates: (N), x = 2,486,002.72 feet; y = 264,332.33 feet.

B3-12-10E (Kune.Good.S.) (Wabsurace County, L.E.Conrad, 1934).
--About 2.5 miles north of the Alma Post Office, along State Highway K11, in SWANE2 sec. 3, T.12 S., R.10 E., on road right-of-way, 606.5 feet north of intersection of west road fence and seat-west half-section line (wire-rock fence), 557.2 feet north of north-west wing of culvert (cross mark on culvert), and 0.5 foot 8.55%, of east wire road fence. Station is a U.S.C.& G.S. and State Survey standard dick in concrete, flush with ground. Elevation: 1,154.244 feet.

Plane coordinates: (N), x = 2,487,138.05 feet; y = 262.564.79 feet.

G3-12-10E (Kans. Geod. S.) (Wabaunses County, L.E. Conrad, 1934). --About 2 miles north of the Alma Post Office, along State Highway Kil, in NW36E3 sec. J. T. 12 S., R. 10 E., on road right-of-way, at junction of State Highways 10 and 11, 228.6 feet S.50°E. (magnetic) of eoutheast corner of stone barn (metal mow and roof), 10.6 feet S.60°E. (magnetic) of telephone pole west of road, and 7.6 feet east of rock fence west of road. Station is a U.S.C.& 0.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,140.912 feet.

Flame coordinates: (N), x ° 2,487,669.62 reet; y = 260,558.39 feet.

A2-12-10E (Kans. Jeod. S.) (Wabaunsee County, L.E. Conrad, 1934).
--About 2.3 miles northeast of the Alma Post Office, along State
Highway R10. in NW4SW4 acc. 2, T.12 S., R.10 E., on road right-ofway, 161.6 feet east of east wire fence of north-south sectionline road (width of road 48.8 feet), and 1.5 feet north of wire
fence south of State Highway 10, and west-northwest of slio. Station is a U.S.C. & O.S. and State Survey standard disk in conorete,
flush with ground. Elevation: 1,094.033 feet.
No coordinates have been determined for this station.

A15-i2-loE (Kans. Geod. S.) (Wabsunsee County, L.E. Conrad. 1934).
--In Alma, west of post office on Third Street, one-half block west of Missouri Avenue, on west side of alleyway, 36.6 feet S.Co. (Magnetic) of northwest corner of post office building, 8.6 feet south of ourb, and 2 feet south of sidewalk on south side of Third Street. Station is s U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,089,655 feet.

No coordinates have been datermined for this station.

Bi5-12-10E (Kane. Geod. S.) (Wabsunsee County, L.E. Conrad. 1954).
--In Alma, on the county courthouse grounds, in sec. 15, T.12 S.,
R.10 E., 134.5 (set S.60°E. (magnetic) of northeast corner and
106.7 feet N.70°E. (magnetic) of southeast corner of courthouse,
27.7 feet south of sest-west entrance sidewalk, and 6.5 feet
N.70°E. (magnetic) of southeast corner of the Quivira Historical
Society monument. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, flush with ground. Elevation: 1,091.453
feet. feet.
No coordinates have been determined for this station.

C15-12-10E (Kans.Geod.S.)(Wahaunage County, L.E.Gonrad, 1934).--About C.3 mile south of the Alma Post Office, in sec. 15, T.12 B., R.10 E., on Chicago, Rock Jeland & Pacific Railway right-of-way, west of southeast corner of the Alma depot, 165.7 rest N.30°E. (magnetic) of mail crane, 115 fest N.56°W. (magnetic) of platform parallel to track, 44.1 fest south of northwest corner of depot ramp, and 17.7 fest N.50°W. (magnetic) of conterline of north main track. Station is a U.S.C.4 G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,058.133 feet.

Plane coordinates: (N). x = 2,485.895.48 feet. x = 250.435.10

Plane coordinates: (N), x = 2,485,895.48 feet; y = 250,436.10

D15-12-10E (Kans.Geod.S.)(Wabaunsee County, L.E.Conrad, 1934)...-About 0.5 mile southwest of the Alma Post Office, in sec. 15, 7.12 S., R.10 E., 1/4 mile southwest along track from Chicago, Rock Island & Facific Railway depot, on right-of-way, 233 feet N.34°W. (magnetic) of center rod of switch signal, 34.6 feet N.60°W. (magnetic) of centerline of north main track, 23.6 feet N.60°W. (magnetic) of northwest corner of section supply house, and 6.5 feet N.74°E. (magnetic) of milepost 126*20. Station is a U.S.C.& G.S. and State Survey atandard disk in concrete, flush with ground. Elevation: 1,058.675 feet.

Flane coordinates: (N), x = 2,485,045.32 feet; y = 249,503.99 feet.

E15-12-10E (Kans. Geod. S.) (Wabaunaee County, L.E. Conrad, 1934)...-About C.5 mile southwest of the Alma Poat Office, along Highway Kil, in NEi3Wi sec. 15, T.12 S., R.10 E., on property of A.B. Wertzberger, on top of prominent hill, 466 feet west of northwest corner of the Wertzberger stone house, and 153.5 feet B.20°E. (magnetic) of boulder at north brow of hill marked with arrow and orces, and S.5°W. (magnetic) of north end of Mill Greek Bridge. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,139,052 feet.

Flane coordinates: (N), x = 2,486,276.50 feet; y = 248,162.22 feet.

A22-12-10E (Kans.Geod.S.)(Wabaunsee County, L.E.Conrad, 1934)...-About 1.6 miles southeast of the Alma Post Office, along State Highway Kil, in NW\$552 sec. 22, T.12 S., R.10 E., on grounds of School District 76, 64, 3 feet 5,50°E. (magnetic) of well, 40.65 feet N.50°E. (magnetic) of southeast corner, 15.75 feet N.90°E. (magnetic) of northeast corner of schoolhouse, and 3 feet west of iron picket fence west of highway. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,090.797 feet.

No coordinates have been determined for this station. See end of this list.

No coordinates have been determined for this station. See end of this list.

B22-12-10E (Kana.Geod.S.)(Wabaunses County, L.E.Gonrad, 1934).--About 1.95 miles southeast of the Alma Post Office, along State Highway Kil and South Branch Road, in SW15E; sec. 22, 7.12 S., R.10 E., 839.4 feet north of south township line between sections 22 and 27, 59.4 feet west of east fence of north-south road, and 3.6 feet east of west wire fence of north-aouth road. The azimuth to farmhouse is 340° (magnetic). Station is a U.S. C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,126.183 feet.

Flame coordinates: (N), x = 2,487,980.91 feet; y = 243,055.18 feet.

A27-12-10E (Kans.Geod.S.)(Wabaunsee County, L.E.Conrad, 1934)...-About 2.4 miles south of the Alma Post Office, along State Highway K11 and South Branch Road, in NE\$NE\$ sec. 27, T.12 S., R.10 E., on road right-of-way, 720.3 feet N.20°N. (magnetic) of northwest corner of concrete bridge rail (rail marked with cross), 56 feet B.70°N. (magnetic) of south end of stone wall east of road, 2.5 feet N.70°E. (magnetic) of wire fence west of road, and 306° (magnetic) from large barn. Btation is a U.S. C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,149.309 feet.

Plane coordinates: (N), x = 2,488.065.85 feet; y = 240,635.75 feet.

A34-12-10E (Kans.Geod.S.)(Wabaunaee County, L.E.Conrad, 1934).--About 5.5 miles south of the Alme Post Office, along South Branch Road and old township road, in SW\$5W\$ sec. 34. T.13 5., R.10 E., on county farm, south of a mound, east of a deep ravine, 742 feet (measured along surface of ground) east of north-south section line, between sections 33 and 34, 31 feet west of west gatepoet, and 2.8 feet north of township line between Tps.12 and 13. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,330.188 feet. Plane coordinates: (N), x = 2,484,737.92 feet; y = 231,577.98 feet.

A3-13-10E (Kans.Geod.S.)(Wabsumsee County, L.E.Conrad, 1934)...-About 6.05 miles south of the Alma Post Office, along South Branch and old township roads, in SW&INW& sec. 3, T.13 S., R.10 E., in fence corner where road runs north-south and angles to southeast and northwest, 14.7 feet south of reference stone marked with arrow, and 4.5 feet 3.80°E. (magnetic) of corner fence post west of road (width of road 39 feet). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,349.129 feet.

Plane coordinates: (N), x = 2,484,400.71 feet; y = 228,712.97 feet.

A16-13-10E (Kans.Geod.S.)(Wabaunsee County, L.E.Conrad. 1934).--About 7.65 miles south of the Alma Post Office, along South Branch Road and old township road, in NE\$NE\$\frac{1}{2}\sec. 16. T.13 8., R.10 E., on property of W.F.Stewe, 174 feet west of east fence of old township road, and 58.9 feet 8.80°W. (magnetic) of northeast corner stone of sec. 16. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,458.331 feet.

Flane coordinates: (N), x = 2.483,944.93 feet; y = 221,084.72 feet.

MEYER (U.S.C.& G.S.)(Wabsunsee County, F.D.Granger, 1888; 1922; Kans.Geod.S., 1934). -- About 6 miles south and 1 mile west of town of Alma, in the NW\$NE\$ sec. 16, T.13 S., R.10 E., on crest of large prairie; about 600 feet south is a public road,

which at this point, from being a north-south road, turns abruptly cast and runs again north-south about 1 mile east of the station. The private road to the west and the horse pond to the northwest, described in Special Publication 179, no longer exist. The station is about on the north section line of section 16 and about 1.590 feet due west of corner stone at intersection of sections 9, 10, 15, and 16. It is 294.6 feet west of north-sud-south wire fence which is in quarter-mile section line. Witness stonessbut 8 feet morth and south of station are in good condition. The station is a 1.8.0.6.5.8. and State Survey standard disk stamped "METER, 1868.4 Elevation: 1,460.502 feet.

Flame coordinates: (N), $\underline{x} = 2,462,355.34$ feet; $\underline{y} = 220,985.12$ feet.

Ceary County

From A23-12-6E (on HUMBOLDT to ROBBINS line) to U.S.C.& G.S. triangulation station REINHARD.

No coordinates have been established for stations in this line.

B21-12-6E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934)...
About 7.8 miles southeast of Junction City Post Office along State
Highway 57, on Fower's ranch, in SE\$SE\$ sec. 23, T.12 S., R.6 E.,
Jefferson Township, 961.2 feet north of east-west section line,
621.2 feet west of north-south section line, 333 feet south and
235.5 feet east of intersection of highway and 50-rod line, 5.7
feet inside property-line fence, and 9 feet above centerline of
road. Bearing on center of high point to southeast is 5.80°E.
(magnetic). Station is a U.S.C.& G.S. and State Survey standard
disk in concrete, projecting 2 inches above ground. Elsvation: disk in concrete, projecting 2 inches above ground. 1,179.512 feet.

A30-12-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934), == About 9.5 miles southeast of Junction City Post Office along State Highway 57, 0.35 mile southeast of school District 38, in BE\$8% sec. 30, 7.12 S., R.7 E., Wingfield Township, on the A.P.Davin property, on a hillside road just above a hayfield, 184.2 feet east of centerline of Highway 57, 188.9 feet east of east edge of highway, 7.2 feet north of east-weat section line between sections 30 and 31, and 4.6 feet east of 80-rod line. Station is a U.S.O.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,262.541 feet.

A31-12-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).—
About 10.5 miles southeast of Junction City Fost Office along State
Bighway 57, in SW\$5E\$\frac{1}{2}\$ sec. 31, T.12 S., R.7 E., Wingrield Township,
on property of I.C.Doyle at east of highway, in a pasture, 7 feet
above centerline of road, 2,450 feet southeast (along highway) of
prolongation of south side of the Thomas Candon farmhouse, 1,359.4
feet northwest of prolongation of north side of the I.C.Doyle
bouse, and 13.7 feet inside fence line. Station is a U.S.C.& G.S.
and State Burvey standard disk in concrete, projecting 3 inches
above ground. Elevation: 1,232.534 feet.

A5-13-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 11.9 miles southeast of Junction City Post Office slong State
Highway 57, in SW\$5W\$4 sec. 5, T.13 S., R.7 E., Liberty Township,
on the Elizabeth Breen property, in fence corner west of road,
830.5 feet south (along highway) of prolongation of north side of
atone cattle shed on the Breen property, 356.5 feet west (measured
downhill) of 80-rod line, 32.5 feet west of centerline of highway,
5.4 feet north of stone fence between sections 5 and 6, and 1.7
feet west of north-south fence line. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, projecting 5 inches
above ground. Elevation: 1,251.139 feet.

AS-13-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 12.2 miles southeast of Junction City Post Office along State
Highway 57. In SEANW sec. 5. T.13 S., R.7 E., Liberty Township,
on the Patrick Breen property, in hayfield on hilleide east of
highway, 919.5 fest north (along highway) of prolongation of north
side of the Breen house, 800 feet south of centerline of bridge
over a tributary to Dry Creek, 121.3 feet west of a fence between
pasture and hayfield, 17 feet east of vertical cut east of road,
and 9.5 feet above centerline of road. Station is s U.S.C.& G.B.
and State Survey standard disk in concrete, projecting 1 inch above
ground. Elevation: 1,279.332 feet.

A16-13-7E (Kans.Geod.B.) (Geory County, L.E.Conrad, 1934).-About 13.5 miles southeast of Junction City Post Office along
State Highway 57, in NN\$NE\$ sec. 16, T.13 S., R.7 E., Liberty
Township, on the Thomas Candon property, near southwest corner of
pasture, 126.73 feet east of north-south half-section line fends,
170.9 feet N.20°E. (magnetto) from northeast corner of the Candon
farmhouse, 6.7 feet inside the present east-west fence, and 8
feet above centerline of road. Station is a U.S.C.\$ G.S. and
State Survey standard disk in concrete, projecting J inches above
ground. No elevation has been determined for this station.

A15-13-7E (Kans. Geod. S.) (Geary County, L.E. Conred, 193%).-About 1%-1/4 miles southeast of Junction City Post Office along
State Highway 57, SM&NW\$ asc. 15, T.13 S., R.7 E., Liberty Township, on the Thomae Candon property, in a pasture on east side of
highway, 1,511 feet south of section line of bridge over a trirutary of Dry Croek, 193.2 feet seat of section line between soctions 15 and 16, 7.8 feet above centerline of road, and 6.6 feet
from present property-line fence. Station is a U.S.C.& C.B. and
State Survey standard disk in concrete, projecting 2 inches above
ground. No elevation has been determined for this station.

A22-13-7E (Kans.Geod.S.)(Geary County, L.E.Gonrad, 1934).-About 15.9 miles southeast of Junction City Post Office along
State Highway 57, in SEANE2 sec. 22, T.13 B., R.7 E., Liberty
Township, 41.7 feet west of centerline of highway, on the Milliam
G. Freemen property, in southeast corner of pasture on west side
of highway, 62 paces east of rock outcrop along ravine on the west,

8.5 feet north of stone fence on half-mile line, and /.5 feet west of stone fence on property line. Station to a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inches above ground. No elevation has been determined for this attains.

B22-13-7E (Kans. Good. 3.) (Geary County, L.E. denrad, 1914), — About 16.3 miles southeast of function City Post Office along State Highway 57, in SEESE4 sec. 22, 7.11 S., M.6 E., Liberty Township, on the Swain ranch, west of road in morth tene line of abandoned farmhouse, in north line of trees, 565.2 feet north of centucline of east—west section—line road, 261.1 feet section of curve to east, 41.7 feet west of north—acute road, and 22.3 feet west of fence corner. Station is a U.S.D.& G.B. and State Survey standard disk in concrete, projecting 2 increase above ground. No elevation has been determined for this station.

A24-13-7E (Kans, Geod.S.) (Geary County, L.E.Conrad, 1938)...
About 17.4 miles southeast of Junction City Post Office along
State Highway 57, in SW15W4 sec. 24, T.13 B., R.7 E., Liberty
Township, on the John Rapp form north of highway, 69.7 feet south
of southwest corner of farmhouse, 42.9 feet north of centerline
of highway, 19.0 feet north of property line, 6.1 feet north and
1.7 feet east of most westerly of four small cedars south of house.
Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. No elevation has been determined for
this station. this station.

B24-11-7E (Kans. Geod. 8.) (Geary County, L.E. Conrad. 1934).-About 18.0 miles scutheast of Junction City Post Office along
State Highway 57, in Sw\$35\$ sec. 24, T.15 S., R.7 E., Liberty
Township, on the Fred L. Harris property, on a low ridge in pasture north of road, 1,597.8 feet west of centerline of northsouth road, 529.5 feet west of prolongation of west side of the
Clark farmhouse, 265.3 feet west of north-south property line,
47.8 feet north of centerline of road, and 17.6 feet north of
east-west property-line fence. Station is a U.9.0.6 G.S. and
State Survey standard disk in concrete, projecting 2 inches above
ground. No elevation has been determined for this station.

A36-13-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 19.3 miles southeast of Junction City Post Office along
State Highway 57, 3 miles north of Dwight, in Nb2Nb1 sec. 36,
7.15 S., R.7 E., Liberty Township, on the E.L. Brockway property,
near northeast corner of pasture, at intersection of State Highways 13 and 57, 102.9 feet south of centerline of east-west road,
33.4 feet west of centerline of State Highway 57, 77.3 feat south
of east-west property-line fence, and 10.6 feet west of northsouth property-line fonce. Station is a U.B.C.& G.B. and State
Survey standard disk in concrete, projecting 2 inches above ground.
No elevation has been determined for this station.

B31-13-6E (Kans.Good.S.)(Geary County, L.E.Conrad, 1934).-About 19.8 miles southeast of Junction City Post Office along
State Highway 57. 2-1/2 miles north of Dwight, Morris County,
sec. 31, T.13 S., R.8 E., Liberty Township, in half-section line
fence between the E.L.Brockway and the Webster Hoyle properties,
on line between lots 7 and 18, 666.2 feet north of prolongation
of north side of the Belle Beach house west of highway, 39.1 feet
east of the centerline of highway, and 16.3 feet east of halfsection line fence corner. Btation is a U.S.C.& G.S. and State
Burvey standard disk in concrete, projecting 2 inches above ground.
No elevation has been determined for this etation.

C31-13-8E (Kann. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 2 miles north and 0.65 mile east of Dwight, Morris County,
on the Albert Beiling property, in lot 23, sec. 31, T.13 S.,
R.E.E., Liberty Township, 34.2 feet north of centerline of road
between Geary-Morris Counties, 18.7 feet north of north edge of
road, 160.3 feet west of driveway leading into the Balley farmhouse, and 163 feet south and 25.9 feet east of southwest corner
of farmhouse, in line of prolongation of its west side. Station
is a U.S.C.& G.S. and State Survey standard disk in concrete,
flush with ground. No elevation has been determined for this sts-

BM-TP-143 (Kans. Geod. B.) (Geary County, L.E. Conrad, 1934)... About 9.1 miles southmest of Junction City, in limestone water table at northwest corner of limestone achoolhouse in District 38. Station is a chiseled cross. Elevation: 1,208.952 feet.

BM-TP-153 (Kans. Geod. S.) (Genry County, L.E. Conrad, 1934).-About 10 miles southeast of Junction City, approximately 300 feet
west of State Highway 57, on the Candon farm on east side of
northeast corner of first full course above foundation of limestone chicken house. Station is a chiseled cross. Elevation:
1,203.453 feet.

BM-TP-170 (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 11.6 miles southeast of Junction City, 90 feet east of
Btate Highway 57, in sec. 5, T.13 S., R.7 E., on the Tom Breen
farm, and in first course above west foundation face of northwest
corner of limestone stock shed. Station is a chiseled cross.
Elevation: 1,236.567 feet.

BM-TP-179 (Kans. Geod. B.) (Geary County, L.E. Conrad, 1934), -About 12.4 miles southeast of Junction City, 30 feet south of
'State Highway 57, in sec. 8, T.13 S., R.7 E., in second course
below port holes on north feee of northwest corner of limestone
bern of Pat Breen. Station is a chiscled cross. Elevation:
1,279.015 feet.

BM-TP-185 (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934)... About 13.1 miles southeast of Junction City, 100 feet north of State Highway 57, and in top or water table at southwest corner of limestone achoolhouse in District 27. Station is a chiseled cross. Elevation: 1,296.484 feet.

BM-TP-195 (Kanu.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 14 miles southeast of Junction City, on State Highway 57,
in center of top of east concrete banniater of 10-foot culvert
over a small dry creek. Station is a chiasied cross. Elevation:
1,311.724 feet.

BM.TP-PoH (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 15.C miles scutheset of Junction City, 115 feet east of
State Highway 57, and in weet face of northwest limestone corner
stone of Foundation of the Fred Spittle farmhouse. Station is a
chiseled cross. Elevation: 1,334,441 feet.

BM-TP-F22 (Kans.Geod.S.)(Grary County, L.E.Conrad, 1934).... About 15.5 miles southeast of Junction City, 125 feet south of State Highway 57, and in north face of concrete foundation near northeast corner of two-story frame house on the Quinn farm. Butten is a chiseled cross. Elevation: 1.461.496 feet.

REINHARD (U.S.C.& G.S.)(Morris County, F.D. Granger, 1888; 1979).—About 2-1/2 miles northeast of Dwight, in the Wewes sec. 6, 7.14 S., R.13 E., on the creat of a large prairie, on the south edge of an open lot at the south end of three rows of cedar trees. Station is on land owned (1922) by Evert R. Simmone, who lives 1/2 mile west of the station. The underground, station, and witness marks are described in note 1. Standard brass reference tablets have been set in the witness posts. The marble post marking the station is inscribed "F.D.C. 1888" on the south face. Additional references are as follows: North to center of road on section line, 157.0 meters (515 feet); east to hedge on east line of Mr. Simmon's farm, 238.0 meters (781 feet). Elevation:

Plane crordinates: (N), x = 2,408,677.72 feet; x = 198,202.38

Geary and Morris Counties

From 0.5.C.4 G.S. triangulation station HUMBOLDT (described elsewhere in this publication) to U.S.C.4 G.S. triangulation station REINHARD (described elsewhere in this publication).

No coordinates have been established for stations in this line.

B10-12-7E (Kans. Geod.S.) (Geary County, L.E. Conrad, 193%).-About 14.C miles southeast of Junction City Post Office building,
near north line of NE4584 sec. 10, T.12 S., R.7 E., Wingfield
Township, on the Chase ranch, 512 paces N.15°E. (magnetic) from
first high-line tower west of section line. Station is a U.S.C.&
G.S. and State Eurvey standard disk in concrete, projecting 2
inches above ground. Elevation: 1,406.712 feet.

B23-12-7E (Kana.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 14-1/4 miles southeast of Junction City Post Office building
in NWNNt sec. 23, T.12 S., R.7 E., Wingfield Township, on the
Chase ranch, 266 paces N.25%. (magnetic) from east end of dem on
Chase property, 183 paces S.70°E. (magnetic) from corner, and 9.6
feet north of fence line. Station is a U.S.C.& G.S. and State
Survey standard disk in concrete, projecting 3 inches above ground.
Elevation: 1,405.529 feet.

A23-12-7E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 14.6 miles southeast of Junction City Post Office building,
near southwest corner of SEXNM2 sec. 23, T.12 S., R.7 E., on the
Chase ranch in Wingfield Township, 2.6 miles southeast of HUMBOLDT,
244 paces south of east-west fence line on center point of three
points at head of deep guich bearing southwest. 46 paces north of
point where rook outcrops and where point breaks into south slope,
and 178 paces S.62°E. (magnetic) of southeast corner of spillway
on earth and rock dam. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground.
Elevation: 1,392.099 feet.

NOTE: North-south road is 0.35 mile shorter than is shown
on county and township maps.

B25-12-7E (Kana.Geod.S.)(Geary County, L.E.Conrad, 1934)...About 16.8 miles (along Humboldt Road and country reads) southeast
of Junction City Post Office, near southwest corner of NW\$SW\$
sec. 25, 7.12 S., R.7 E., Wingfield Township, on the Powell
Schmedeman property, 134 paces north of fence corner, and 5.3
feet east of north-south fence line. Station is a U.S.C.& d.8.
and State Survey standard disk in concrete, projecting 2 inches
above ground. Elevation: 1,421.763 feet.

A25-12-7E (Kans.Geod.S.) (Geary County, L.E.Conrad, 1934), -About 17.2 miles (along Humboldt Road and country roads) southeast of Junction City Post Office building, in SW\$SW\$ sec. 25,
T.12 S., R.7 E., Wingfield Township, in hayfield on low ridge
running northeast-southwest, on the Paul Schmedeman property,
500.2 feet cast of north-south section line, 449.5 feet south of
centerline of road, 352.5 feet north of east-west saction-line
fonce, and 350.2 feet east of rock outcrop. Station is a U.B.C.
& G.S. and State Surrey standard disk in concrete, flush with
ground. Elevation: 1,412.235 feet.

Al-11-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 19.5 miles southeast of Junction City, in NE4SE2 sec. 1,
7.13 S., R.7 E., on property of W.H.Macelin, Liberty Township,
165.2 feat west of north-south section-line fence, and 1,195.1
feet south of east-west half-section line fence. Station is s
U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,442.414 feet.

Al2-13-7E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 20.3 miles southeast of Junction City Post Office, in
NEANE2 sec. 12, T.13 3., R.7 E., Liberty Township, on the Mill
Hintz property, in pasture on low rocky ridge west of road due
north of lone oeder stending on ridge north of Rumboldt Road,
551.2 feet south of stone corner post at junction of north-south
fence line west of road leading north of sast-west fence line of
section 12, and 23.5 feet west of fence line. Station is a U.S.C.
& G.S. and State Survey standard disk in concrete, projecting 3
inches above ground. Elevation: 1,423.634 feet.

A7-13-8E (Kans.Geod.S.)(Geary County, L.E. Conrad, 1934).-About 19.5 miles southeast of Junction City Post Office, in lot 21, SE\$9% sec. 7, T.13 S., R.3 E., Liberty Township, on wrst adge of schoolyard (District 5), 100.6 feet west of northwest corner of schoolhouse and in line of prolongation of south side of school, 59.7 feet south of centerline of Humboldt Hoad, and 22.2 feet N.35°E. (magnetic) of center of well. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 8 inches above ground. Elevation: 1,354.375 feet.

B18-14-5E (Kans.Geod.S.)(Geary County, L.E.Conred, 1934).-About 2 miles east and 6 miles north of Dwight, Morris County,
in lot 11, NWANC; sec. 18, T.13 S., R.S.E., Liberty Township, on
east side of Humboldt Road, about 247 feet northwest of the Will
Brown house, 9.4 feet inside fence line, and 7.8 feet above road
level. Bearing on chimney of the Brown house is S.26°E. Biation
is a U.S.C.& G.S. and State Survey standard disk in concrete,
projecting 3 inches above ground. Elevation: 1,380.687 feet.

A18-13-8E (Kana. Geod. S.) (Geary County, L.E. Conrad, 1934)...
About 2 miles east and 5.5 miles north of Dwight, Morris County, in lot 13, SWHEE sec. 18, T.13 S., R.S. E., Liberty Township, 0.15 mile (along Humboldt Hond) north of the Glessaner home on the Glessaner property, 153 feet northwest of present fence corner, 8.9 feet outside of present fence line, and about 5 feet above level of, and on east side of road. Station is a U.S.C.& 0.8. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,392.636 feet.

A19-15-5E (Kans.Geod.S.) (Geary Gounty, L.E.Conrad, 1934).-About 2 miles east and 4.2 miles north of Dwight, Norris County,
in SE45E4 eec. 19, 7.13 S., R.3 E., Liberty Township, on the
Albert Brown property, 793.5 feet north of east-west section-line
fence, 374.2 feet west of north-south section-line fence, 12.5
feet inside of fence at first point north of section fence (where
fence bears northweet), and about 7 feet above roadbed. Station
is a U.S.C.& G.S. and State Survey standard disk in concrete,
projecting 2 inches above ground. Elevation: 1,448.176 feet.

AIO-13-8E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).--About 2 miles east and 3.7 miles north of Dwight, Morris County, in BEANE2 see. 30, T.13 S., R.S.E., Liberty Township, on the Frank Bieling property, 20.5 feet south of quarter-essiton line, 76.9 feet east of southeast corner of framework, 69.3 feet north of the prolongation of south eide of farmhouse, 69.5 feet south of southeast corner of the mesonry work, and 197.1 feet east of prolongation of east side of barn. Station is a U.S.C.& G.S. and State Survey standard diek in concrete, projecting 2 inches above ground. Elevation: 1,489.410 feet.

A31-13-8E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934)....
About 2 miles east and 2.45 miles north of Dwight, Morris County, in RE2865 sec. 31, T.13 S., R.S E., Liberty Township, 258.2 feet south of half-section line, 21.6 feet west of centerline of road, on the Lizzle Alexander farm, 111 feet west and 149.2 feet morth of the northwest corner (in a line of prolongation) of north side of the Alexander one- and one-half-story farmhouse, and 3.5 feet west of present fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,519.132 feet.

A6-14-SE (Kans.Geod.S.)(Morris County, L.E.Conrad, 1934).-About 2 miles east and 2 miles north of Dwight, in NEINE eas. 6,
T.14 S., R.S E., Chio Township, on the L.P.Kreft farm, 115 feet
south of centerline of sast-west road, 23 feet west of centerline
of north-south road, 2.3 feet inside of present north-south fence
line, and 2,128.76 feet northeast of REINHARD. Station is a
U.S.C.A G.B. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,538.656 feet.

Geary and Morris Counties

From U.S.C.& G.S. triangulation station ROBBINS to (U.S.G.S.) TT Station No.83 M. (Station ROBBINS is described elsewhere in this publication.)

No coordinates have been established for stations in this line.

A30-12-6E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 5.4 miles southeast of Junction City Post Office building,
in NEISEE sec. 30, T.12 B., R.6 E., Jefferson Township, on property of Otto Straus, on a low ridge, south of ROBBINS, 185.0 feet
north of road junction to southeast, and 93.5 feet west of section-line fence. Station is a U.S.C.& O.S. and State Survey
standard disk in concrete, projecting 3 inches above ground.
Elevation: 1,318.916 feet.

A5-13-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 5.1 miles south along Skiddy Road and 0.5 mile east of road
from Junotion City Post Office, in Nwikhwi sec. 5, T.13 S.,
R.6 E., on the C.F.Wetzel property, Blakely Township, in eastwest section-line fence between sec. 5, T.13 S., R.6 E., and
sec. 32, T.12 S., R.6 E., 831.0 feet east of section line running
north-south, and 483.4 feet west of 80-rod line running northsouth. Station is a U.S.2.4 0.S. and State Survey standard disk
in concrete, projecting 2 inches above ground. Elevation:
1,327.528 feet.

Ald-13-6E (Kana, Geod. S.) (Geary County, L.E. Conrad, 1934).—
About 8.1 miles southeast along Skiddy Road, and 0.25 mile east of road from Junction City, in NE\$SE\$ acc. 15, T.13 S., R.6 E., blackey Township, on property of Nm. Webster, 1,307.3 feet mest of north-bouth section line, 583.0 feet north of east-west fence on AU-rod line, 552.4 feet north of cuttonwood, and 1.2 feet west of north-south fence line. Station is a U.S.C.4 G.8. and State Survey standard disk in concrete, projecting 5 inches above ground. Elevation: 1,319.590 feet.

Big.11-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934)...About 8.9 miles southeast of Junction City Post Office building,
slong Skiddy Road, 0.5 mile east of School District 20, 492.2 feet
south (magnetic bearing taken on chimney of the J.B. Goggin house),
62.25 feet east of road intersection, in section line between
MWHME soc. 19, T.11 S. R.6 E., and SWISES sec. 18, T.13 S.,
R.6 E., (the respective properties belonging to John Hoff and
J.B. Goggin in Blakely Township). Station is a U.B.C.& G.S. and
State Survey standard disk in concrete, projecting 3 inches above
ground. Elevation: 1,325.755 feet.

A30-13-66 (kans. Geod. S.) (Geary County, L.E. Conrad, 1934)...
About 10-1/4 miles southeast of Junction City Post Office along Skiddy Road, 2.6 miles northwest of Missouri-Kansas-Texas Ratiroad station in Skiddy, Norris County, in SWiNE sec. 30, T.13 B., R.6 E., Blakely Township, outside property line of Wm. Shaffer property east of road at edge of deserted farmhouse, 1,455.6 feet south of east-west section 11 ine between sections 19 and 30, 121.3 feet south and 9.5 feet west of first of seven cedars north of abandoned farmhouse, 75.0 feet N.75W. (magnetic) of northwest corner of well curb, and 39.0 feet north and 4.2 feet west of northwest corner of stone fence south of farmhouse. Station is a U.B.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,345.404 feet.

A31-13-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934)...About 11.0 miles south of Junction City Post Office along Skiddy
Road, 2 miles northwest of Missouri-Kansas-Texas Railroad station
in Skiddy, Morris County, in Neith's sec. 51, 7.1; 8.1, 8.6. E.,
Blakely Township, on property of Mrs. E.V.Pember, west of Skiddy
Road and scross road south of Pleasant View Cametery, 1,318.6
feet east of east reil of track, 50.7 feet west of north-south
property-line fance, 45.2 feet south and 50.7 feet west of rock
corner post at southeast corner of cemetery, 37.5 feet south of
east-west section-line fence. Station is a U.S.C.& G.S. and State
Surrey standard disk in concrete, projecting 3 inches above ground.
Elevation: 1,349.560 feet.

A29-13-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).--About 10.8 miles southeast slong Skiddy Road and about 0.6 mile esst from Junction City Post Office, in a field, about 1.2 miles north of church in northwest part of Skiddy, Morris County, in Skisky sec. 29, T.13 S., R.6 E., Blakely Township, on property of Jellison Trust Company, in a pasture on second level above bottom of ravine leading southeast, 900 feet north of section line, and 244.9 feet east of north-south section line. The following bearings are from station: To steeple of Skiddy Church, S.10° (megnetic); corner post at intersection of sections 29, 30, 31, and 32, S.10°W. (magnetic); large tree in ravine, S.20°E. (magnetic). Station is a U.S.C.& G.B. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,344,844 feet.

B\$1-13-6E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 11.0 miles south along Skiddy Road and 0.4 mile southeast
from Junction City Post Office, 2.4 miles (along road) north of
Missouri-Kansas-Texas Railroad station in Skiddy, Morris County,
0.4 mile 8.61°E. of cemetery in SENE; sec. 31, T.13 B., R.6 E.,
Blakely Township, in pasture on property of the Mahoney sisters,
on ridge south of first rayine south of section line, due east of
head of ravine bearing southwest, 1,329 fest south of section line
between sections 31 and 30, and 807.8 fest west of north-south
section-line fence. Following bearings are from station: To
Skiddy Church spire, B.25°E. (magnetic); lone tree on east-west
section line N.20°W. (magnetid). Station is a U.8.C.4 G.8. and
State Survey standard disk in concrete, projecting 3 inches above
ground. Elevation: 1,345.639 feet.

A12-13-6E (Kana.Geod.S.)(Geary County, L.E.Conrad, 1934).—
About 0.75 mile north and about 0.4 mile east (on private road)
from Skiddy, Morris County, in SENN2 sec. 32, T.13 S., R.6 E.,
on top of high rocky point east of the Zeigler farmhouse, 638.2
feet north of east-west half-section line fence, 121.8 feet south
of sast-west fence at the most westerly point of rock outcrop,
22.4 feet south of line of prolongation of south side of the
Zeigler house, 22.0 feet east of west side of rock outcrop, 19.8
feet south and 2.4 feet west of small lone cedar. Bearing on southeast corner of house, N.82*W. Station is a U.S.C.& G.B. and State
Survey standard disk in concrete, projecting 3 inches above
ground. Elevation: 1,295.909 feet.

B32-13-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934)...About 0.6 mile northeast of Missouri-Kansae-Texas Railroad station at Skiddy, Morria County, in STAST see. 32, T.13 S.,
R.6 E., Blakely Township, on the Robert Walker property, in a
pasture north of road, neer point of first rocky ridge north of
line between Geary and Morris Counties, 917.4 feet west of
north-south section-line Tence, between sections 32 and 33, and
520.8 feet north of east-west section-line fence. Bearing on
steeple of church in northwest part of Skiddy, B.70°W. (magnetic).
Station is a U.S.C.& G.S. and Btate Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,341.034
faet.

AlC-14-6E (Kana.Geod.S.)(Morris County, L.E.Conrad, 1934).-About 4.0 miles north and 0.6 mile west (thence 0.5 mile southeast in a field) from White City, on a high knoll in hayfield
near southeast corner of the H.P. Johnson property, in SERNM4
esc. 10, T.14 S., R.6 E., Rolling Prairie Township, 390.4 feet
S.50° (magnetic) of lone cottonwood, 554.8 feet north of east-west
half-section line fence, and 154.3 feet west of north-south halfsection line fence. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, flush with ground. Elevation:
1,422.660 feet.

A15-14-5E (Kans. Good. 3.) (Morris Cours., w. E. Green, 19th).
About 2.6 miles north of Milre City, in Stylki ner. 19. Tile 5.,
8.6 E., Rolling Prairie Township, on west olds of olytway, on the
Robert Reid property, may the summit of a low sides of hapfield,
north of sixe of old faresboars which is may been red execut for
born and whomill, 631.0 feet north of east-west political startion
line fence, 184.5 feet west of north-acuth mospority line ferce,
35.5 feet north and 187.8 feet west of tuted televisms of the most
of half-section line; twening on chimner of the fellow by the most
of half-section then there of the George Ea noise 7.6.7% Destine is
a U.S.C.& G.S. and State burvey standard dist, is concerne, flush
with ground. Elevation 1.334.371 feet.

B26-18-66 (Kann. Geod. S.) (Morris County, ... E. Crite?, 19th), -About 1.0 mile northeast of White City Fost Office, 0.6 mile
aorth of high school building, in NESSER and . 26. T.18 E. B.6 E.,
Rolling Prairie Township, on the Jennie A. Bacon property, 54.2
feet 9.60°E. of east main track of Chicago, Neck Island & Pacific Railway at point near interaction of cast-went helf-section
line, 6.5 feet east of east right-of-way fence of cattrack, and
h.7 feet aouth of hedge fence on east-west helf-section line.
Betation is a 0.8 C.6 0.8. and State Survey standard disk in concrete, fluch with ground. Elevation: 1,479.039 feet.

TT-BTATION-NO.83-M (U.S.C.S., 1926) (Morris County, Kans. Geod.S., 1934;1935).--About 0.75 mile northeast of White City, 1,660 feet northeast of croseing of Missouri-Kansas-Texne Hall-road and Chicago, Rook Island and Pacific Railroad, 30 feet southeast of centerline of side track, 23 feet northeast of center of iron gate to farm croseing, and 3 feet south of fence corner. Btation is a U.S.C.S. standard disk stamped "TT STA NO.83 1926 M" in concrete. Elevation: 1,476.485 feet.

Plane coordinates: (N), x = 2,361,713.52 feet; y = 173,764.01 feet.

Wabaunsee and Geary Countles

From A35-11-8E (on ZEAN DALE to HUMBOLDT line) to A51-13-8E (on HUMBOLDT to REINHARD line).

No coordinates have been established for stations in this line.

B2-12-8E (Kans.Good.S.)(Wabsumsee Gounty, L.E.Conrad, 1934). --About 12.5 miles southened of the Manhattan Post Office building, Risey County, near zoutheset corner of NESNW3 of sec. 2, T.12 S., R.S.E., on property of Malcolm Aye, Washington Township, near the east side of summit of prominent hill, 1,090 feet south of section fence line dividing Wabsumsee County and Riley County, approximately 5C feet above road-bed and 174.6 feet west of fence on west side of road. Station to a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,456.552 feet.

C2-12-8E (Xans. Geod.S.)(Nabaunsee County, L.E.Conrad, 1934).

--About 13.3 miles anotheast of Manhattan Post Office building, Riley County, 12.2 miles northwest of Alma, in SWASEA acc. 2, T.12 S., R.S. E., Washington Township, on the J.M.Aye oroperty, about 1 mile south of Wabaunsee-Riley County line, 50 feet northeast of atone corner post west of road, 49 feet north of eastwest section line on one side of road, and 0.9 foot east of east fence line along north-south road. Station is a U.S.C.W. G.S. and State Survey standard disk in concrete, projecting 1 inches above ground. Elevation: 1,476.260 feet.

NOTE: The supposed cast-west section line at west side of road is 3.2 feet ferther south then east-west section line north of road. This road is 46.5 feet wide. Bearing on stone corner post 50 feet from tablet west of road is 8.30°W. (magnetic).

All-12-8E (Kens. Geod. S.) (Nabaunsee County, L.E. Conrad, 1934).

-About 11.3 miles north-northweet of Alms, in NMSSE sec. 11.

7.12 B. R.B.E., Washington Township, on property of J.M.Aye,
539 feet N.30°W. (magnetic) of frame farmhouse, 499 pages from
north fence line of the Alms-Junction City Road, and 0.9 foot
wast of east fence line on north-secuth road (47 feet wide from
fence to fence). Station is a U.S.C.& C.S. and State Survey
standard disk in concrete, projecting I tooked dieve ground.
Elevation: 1,462.083 feet.

Bll-12-RE (Kans. Good. S.) (Wabbunsee County, L.E. Courad, 1934). --About 14.2 miles woutheast of Manbattan, Riley County, 11.2 miles northwest of Alma, in SW\$25\% sac. 11, 7.12 S. B.S. b., Washington Township, on the J.K. Aye property south of west side of bern, 210° (magnetic) from southeast corner of farahouse, 46c pages 90°S. (magnetic) from southeast corner post at intersection of morth-south road with Alma-Junction City Road, 1,5% fret 270° (magnetic) from fence at asme corner, and 0.7 foot south of frace north of Alma-Junction City Road, 1,5% fret 270° (mignetic) from fence at asme corner, and 0.7 foot south of frace north of Alma-Junction City Road, 1,5% fret 270° (mignetic) from fence at asme corner, and 0.7 foot south of frace north of Alma-Junction City Road. Station is a U.S.C.A G.S. and State Survey standard disk in concrete, projecting 2 inches show ground. Elevation: 1,475-5%0 feet.

A14-12-8E (Kana.Geod.9.) (Wabauname County, L.E.Coured, 1934) --About 14.4 miles southwast of Manhattan, Hiley County, 15.5 miles northwest of Aima, in NELWAL sec. 14, T.17 S., H.S.E., washington Township, on property of J.M.Aw., about Mos paces from north-south road (40 feet wide at point of Bench Mosk), 265 feet.

18.2 (magnette) from scutawest corner post at intersection of porti-south road with Alma-Junction City Road (52.5 feet wide frome to found), and 131.5 fact 1800 (magnetic) from water tank in the J.M.Age posture, 1907 from almost of B.M. All-12-6E, Station to a M.S.C.3 D.A. and State Survey standard disk 19 concrete, pro-Jacting I turber above ground. Elevation: 1,469.861 feet.

Also Figs. (Agns. Geoi.S.) (Wabbunder County, L.E. Conred, 1934), was not 16.5 miles for speed meter) continuant of Manhattan, Riley Jounty, in SERVA sec. 26. Tit S., R.B. T., Masnington Township, Ingr. Feet west of nonth-south nell-section line road, 18 feet would of centerline of road, and 0.8 feet morth of fence line on must seen road, outside of the Lewis Mileon property. Station is all 3.0.6 S.S. and State Jursey absorbed lisk in concrete, projecting a tochee above ground. Stevation 1,474.576 feet.

B.G-12-SE (Rana.Grod.S.)(Wabauanee County, L.E.Conrad, 1934).

About 17.35 miles (by speedometer) southeast of the Manhattan Fost Cffice building, Riley County, in NW48W4 see, C6, 7.12 8, R.S. E., Washington Township, on property line of William Babb, 193.3 feet seath of half-section line, 159.1 feet seat and 10.4 feet south of noutheast corner of the lasted Horning Johnson home, and 17.75 feet east of centerline of road. Station is a U.S.C.& O.B. and State Survey standard disk in concrete, projecting 2 lastes whose ground. Elevation: 1,452.855 feet.

TT-Station-No.70-M (9.8.6.8.1)26)(Wabaunsee County, Kans. Geod.5., 1934).--About 17.379 wiles doutheast of Manhattan, Riley County, 5 feet east of T-road north at southwest corner sec. 26, T.12.9., R.Z.E., along Wabaunges-Geary County line, and 3 feet south of wire fance. Station is a U.S.S.5. standard disk stamped TT STA.NO.70 1926 M°, in concrete. Elevation: 1,475.801 feet.

A27-12-5b (Kans.Geon.S.)(Geary County, L.E.Conrad, 1934).-About 15.1 miles (speedometer) southeast of Manhattan Post Office
building, Hiley County, in SE35E2 sec. 27, 7.12 S., R.S.E.,
Jackson Township, outside the Isabel Borning Johnson property
line, 1,049.7 feet west of north-south section line, 718.8 feet
sout of the Prilonyation of east side of the Edgar Ramsour house,
19.0 feet north of centerline of road, and on north side of eastwest road. Station is a U.S.C.& G.S. and State Survey standard
disk in property projection. disk in senerate, projecting 1 inch above ground. 1,487.145 feet. Elevation

ANN-12-8E (Kane.Geed.S.)(Geory County, L.E.Conrad, 1934).—About 19.2 miles south of Hanhattan Post Office building, Riley County, in NEANE2 ecc. N. 7.12.5., R.6 E., 1,048.0 feet west of centerline of north-south road, or south side of sast-west road, 930.5 feet west of prolongation of west side of School District 15. 20 feet south of centerline of east-west road, and outside of property line of Harry Say in Jackson Township. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,484.158 feet.

A34-12-8E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-A34-12-8E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-Riley County, O.6 mile south of School District 35, on property
of People's State Bank of Alta Vieta, just outside front yard, it
NM\$3M\$ erc. 34, T.12 S., R.S.E., Jackson Township, 50 feet west
of southwest corner of ferminouse, and 12 feet north in line of
prolongation of south side of farmhouse. Station is a U.S.C.&
O.S. and State Survey standard dies in concrete, projecting 2
inches above ground. Elevation: 1,501.902 feet.

B33-12-2E iKans. Geod.S.)(Geary County, L.E.Conrad, 1934).-About 19.9 miles (speedometer) southeast of Manhattan Post Office
building, Ritey County, in SEASEA sec. 33, T.12 S., R.S.E.,
Jackson Township, on east side of Presbyterian Churchyard, near
north cedar. 94.5 feet north of centerline of east-west road,
78.25 feet enat of southeast conner of church, and 24 feet west
of centerline of north-south road. Station is a U.S.C.& G.S.
and Shate Survey standard disk in concrete, projecting 2 inches
above ground. Elevation: 1,495.620 feet.

A1-13-SE (Knns.Geod.S.)(Geery County, L.E.Conrad, 1934),... About 20.4 miles (speedometer) southeast of Manhattan Post Office building, Riley County, in SW\$NN% sec. 3, T.13 S., R.8 E., outside the Julius Falk property, Liberty Township, 486.1 feet south of the prolongation of south side of the Walter Campbell farmahous, 19.5 feet east of centerline of north-south road, and 1.0 foot west of fence line mast of road. Station is a U.S.C.& 3.5 and State Survey standard State Standar

A9-13-SE (Kans.Geod.S.)(Genry County, L.E.Conrad, 1934).-About 6.75 miles (speedometer) northwest of Alta Vista, Wabaunsee
County, in NEAWER sec. 7, 7.13 S., N.S.E., Liberty Township, on
property of C.C.Brown, 262.5 feat south of section 1ins between
sections 9 and 4, 21.6 feet west of centerline of road, 6.2 feet
south and 2.8 feet west of lone elm. Station is a U.B.C.& G.B.
and State Survey standard dick in concrete, projecting 3 inches
above ground. Elevation: 1,478.511 feet.

Al0-14-SE (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 6.6 miles (speedometer) northwest of Alta Vista, Wabaunses
County, in SURWA sec. 10, T.13 S., R.S. E., on property of
Julius Falx, Liberty Township, 757 feet north of half-section
line, 25.9 feet east of centerline of north-south road, and 8.3
feet east of property-line fence. Station is a U.S.C.& C.S. and
State Survey attackerd disk in concrete, projecting 3 inches above
crount. Elevation: 1,484.588 feet.

Al6-14-SE (Kana.Good.S.)(Geary County, L.F.Conrad, 1934)...-About 5 miles northwest of Alta Vista, Wabsunsee County, in BE\$BE\$ cec. 15, 7.13 S., R.S.E., Liberty Township, in northwest corner of District 36 schoolyard, 271.2 fret north of sast-west propertyline Fonce, 183.7 feet north and 137 feet west of northwest corner of schoolyands, 26.3 feet east of wast eide of schoolyard, 0.7 feet east of out the dide of schoolyard. Station is a U.B.C.\$ 0.8. and State Davvey examined disk in concrete, projecting 1 inch alove creums. Elevation: 1.474.675 feet.

A21-13-5E (Kana, Geod. S.) (Genry Jonaty, 1 ii. Journal, 1 it?), ... About 4.15 miles northwest of Alia Vista, Wakarnare Tounty, by State Highway 11, in 3E2554 acc [I], T.14 B., R.* E., Liberty Township, on property of C.P.Flah, at east edge of a hayrield, in line with row of telephone poles 1.00%? feet north of eastwest section-line fence, 1%6.1 feet mast of force on west adder of field, and 36.0 feet west of north-south fence east of force. Station is a U.S.C & O.S. and State Survey atomized diss to concrete, projecting 2 tookes Above ground. Flevytion: 1.575 783 feet.

TT-Station-No.68-M (U.S.G.S., 1926)(deary County, Kana, Geod.S., 19(M).--About 3 miles northwest of Alta Vieta, Wabaunace County, 2) feet west of southment corner sec. Df. T.13-S., H.S. E. and 4 feet northwest of corner ience post. Distinct is 91.8.G.S. standard disk stamped "TI STA.MO.63 1926 M", in concrete. Elevation: 1.537-117 feet.

A27-13-85 (Kana. Good. S.) (Dewry Jounty, L.E. Gerrad, 1938). -About 3.2 miles northwest of Alta Viets, Wahaumsee County, in
SW\$38% sec. 27, T.15 S., R.S.E., Liberty Township, along State
Highwey 11, outside of the F.G. Morgan property line, 21 feet,
east of centerline of north-south road, 1,000.2 feet north of eastwest section line, \$3.5 feet east and \$3.6 feet south of seventh
pole (on west side of road), G.55 feet wast of present ferne line,
north of where highway turns south, and under telephone line on
east side of road. Station is a U.S.C.& G.S. and State Survey
standard disk set in concrete, projecting I inches above ground.
Elevation: 1,517.291 feet.

A13-13-8E (Knus.Good.S.)(Genry County, L.E. Conrad, 1934).—About 3.2 miles northwest of Alta Vists, Webaunsee County, in NEE#NE2 sec. 33, T.13-3., R.S.E., in fence line south of State Highway 13, 1,121.6 feet west of centerline of north-south road, 4.0 feet west of sixth telephone pole (west of where highway turns south), 27.9 feet south of centerline of road, and on property line of Welter Morgan in Liberty Township. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,528.669 feet.

A28-13-8E (Kans.Geod.S.) (Geary County, L.E.Conrad, 1934).--About 3.6 miles northwest of Alta Vista, Wabaunsee County, along State Highway 11, in BE33W1 see. 28, T.13 S., R.S.E., Liberty Township, on property of Walter Morgan, 1,234.5 feet east of West section line, 756.8 feet east of Mose Springs cemetery, on east fence, and 27.5 feet north of centerline of highway. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,530.637 feet.

A\$2-13-8E (Kana.Geod.S.)(Grary County, L.E.Conred, 1934).--About 21.8 miles southeast of Junction City, 5 miles northwest of Alta Vieta, Wabaunase County, along State Highway 13, in Whilmid sec. 32, T.13 S., R.K.E., Liberty Township, on property of Harlow Crowell, 209.5 feet east of intersection of Humboldt Road and State Highway 13, 29.0 feet south of centerline of highway 3,65 feet east of second pole from north-south road, and 0.5 foot inside fence line. Station is a U.S.C.& G.S. and States Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,481.119 feet.

Riley, Geary, Clay and Dickinson Countles

From U.S.C.& G.S. triangulation station EMMICSSEN (described elsewhere in this publication) to U.S.C.& G.S. triangulation station WILMER.

No coordinates have been established for stations in this line.

Al2-10-6E (Kans.Good.S.)(Riley County, L.E.Conrad, 1934)....
About 7.45 miles west of Manhatton, 2.5 miles southwest of Kents
(along country reads), in 304304 sec. 12, T.10 S., R.6 E., Seven
Mile Township, on right-cf-way adjacent to farm of Bill Ratliff,
226 feet 6° (magnetic) from northeast corner post of section 14,
199 feet north of intersection of sections 11, 12, 13, and 14,
38.7 feet west of mest fence of north-south road, 2 feet west of
Wire fence of north-south road, and 8.80°E. of ERRICSSEN. Station is a U.S.C.& G.S. and State Survey standard disk in concrete,
35 inches below ground. Elevation: 1,325.159 feet.

Alb-10-6E (Kana. Geod. S.) (Riley County, L.E. Conrad, 1934).-About 8.15 miles west of Manhattan, 5.2 miles southwest of Kesta
(along country roads) in NWANWA sec. 14, T.10 S., R.6 E., Sever.
Mile Township, 0.7 mile S.10°M. (magnetic) of station Al7-10-6E
(by road) on land owned by M.L.Dienne, 167 steps N.70°N. (magnetic)
of southwest corner stone of farmhouse, 58.3 feet south of north
fence of east-west road, 41.5 feet south of centerline of stone
fence on south side of same road, and 3 feet west of west adge of
north-couth stone fence. Station is a U.S.C.A. G.S. and State
Survey standard disk in concrete, 33 inches below ground. Elevation: 1,329.036 feet.

AS-10-6E (Kana.Geod.S.)(Riley County, L.E.Conrad. 1934).-About 10.85 miles west of Manhattan. 5.9 miles continued of Kents.
8 miles northwest of Ogden (along country roade), in Net SEE nea.F.
T.10 B. R.6 E., Seven Hile Township, on south edge of plum;
thicket, east of red bern and cattle lane, on land of John Thomas,

rem feet worth and the frequent of northeast corner post at internation, 10 a.2 feet 3.3026. (magnetic) of southeast corner of atom boune, 6.3 feet went of east fence of north-south road, and 3.3.4 feet went of west fence of north-couth road. Station is a 1.3.3.4 3.3 and State Survey standard disk in concrete, 33 instant telescope and collection 1,302.031 feet.

At all the post of Machatian, 9.15 miles northeast of Machatian, 9.15 miles northeast of Machatian, 9.15 miles northeast of Mathatian, 9.15 miles northeast of Machatian, 9.15 miles northeast of Read Sensitivest of Keate, (slong country roads), in SEISE sec. 8, T.R. 8. R. 6. E. ten land cered by John Thomas, 0.35 mile (by merupaneter) due south of BM AR-10-6E. 400 feet east of northmenth oress, 101 stone northment of farmhouse, and 40 feet west of sept fond or northmenth read. (Station is at intersection feare). Station is a U.S.U.S. 6.8 and State Survey standard disk in concrete, 33 thomas below ground. Elevation: 1.255.787 feet.

A20-10-6E (Esns. Geod.S.) (Riley County, L.E. Conrad, 1934).-About 13.25 miles west of Manhattan, 5 miles southwest of Kests,
6.5 miles northwest of Opden, (along country roads), in NE45E4
acc. 20, T. 10.3. R.5 E., Seven Mile Township, on land owned by
Esn Brewer, approximately 1.5 miles from station B5-10-6E (by
Esn Brewer, approximately 1.5 miles from station B5-10-6E (by
Especially 10.25 feet about 6 northwest corner of SE4 sec. 20,
100 steps north of scutheast corner NE4SE4 sec. 20, north of white
house on hill, and 2.45 feet west of stone fence. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, 32 inches
below ground. Elevation: 1,291.105 feet.

B2C-10-6E (Kana. Georgia, 1914).—
About E.25 miles southwest of Kents, 2 miles east of Milford Post Office, Genry County, 6-1/4 miles northwest of Ogden, (along country roads), in SE552 sec. 20, 7.10-8., R.6 E., Seven Mile Township, on land owned by Dan Brewer, 486 steps southwest of station A20-10-16. 296 steps south of north quarter-section line of SE4352, 350-95 feet north of centerline of road, 288-9 feet 350° (magnetic) from northwest corner of wood barn, 288.7 feet 330° (magnetic) from morthwest corner of wood house, 260.5 feet 340° (magnetic) from well, approximately 115 feet west of east section line of sec. 20, and 0.8 foot west of wire fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 32 inches below ground. Elevation: 1,293.777 feet.

A29-10-6b (Kane, Geod. 3.) (Riley County, L.E. Conrad, 1934), — About 9.25 miles southwest of Kests, 7.1 miles east of Milford Post Office, Geary County, 7 miles northwest of Ogden, (along country roads), in NW\$\mathbb{N}\mathbb{2}\] sec. 29, T.10 8., R.6 E., Seven Mile Township, on land owned by Robert Houserman, 1 mile west of station B20-10-6E (by spredometer), directly under whre fence, 515.3 feet 35° (magnetic) from northeast corner post of wood bridge, \$2.2 feet due east of telephone pole in northeast corner of sec. 30, and 355.15 feet 100° (magnetic) from south end of galvanized pipe culvert. Station is a U.S.C.2 G.S. and State Survey standard diek in concrete, 36 inches below ground. Elevation: 1,307.407 feet.

A25-10-5E (Kana. Geod. S.) (Riley County, L. E. Conrad, 1934).-About 10.1 miles southeast of Riley, 8-1/4 miles morthwest of
Ogden, in NEWE acc. 25, T.10 S., R.5 E., Seven Mile Township,
355. E eet 2510 (magnetic) from telephone pole in northwest corner of sec. 25, \$100 (magnetic) from schoolhouse, \$3.1 feet south
of centerline of eact-west section-line road (45 feet wide), and
0.9 foot east of wire fence. Station is a U.S.C.& G.S. and State
Survey standard disk in concrete. Elevation: 1,285.98% feet.

B24-10-5E (Kans. Geod. S.) (Riley County, L.E. Conred, 1934).-About 9 miles south of Riley, on U.S. Highway 77, 4.95 miles east
of Milford Post Office, Geery County, in SW18W4 sec. 24, 7.10 8.,
R.5 E., Seven Mile Township, on lend of F.B. Younkin, 720.8 feet
north of intersection of sections 23, 24, 25, and 26, 310.4 feet
170° (magnetic) from southeast post of bridge, 90 steps south of
outtonwood, 1.8 feet east of east wire fence of road, and 1.7
feet south of whre fence. Station is a U.S.C.& G.S. and State
Survey standerd disk in condrete, 33 inches below ground. Elevation: 1,302.200 feet.

A26-10-5E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 9 miles south and 1 mile west of Riley, 3.9 miles east of
Milford Post Office, Geery County, in Nwiltwi sec. 26, 7.10 S.,
R.5 E., Seven Mile Township, on land of Merry Otto, 116.3 feet 304°
(magnetia) from northwest corner of house, 104.6 feet 132° (magnetia) from southersat corner sec. 22, 7.10 S., R.5 E., Geary
County, 81.3 feet south of centerline of north fence an eastwest road, 41.6 feet south of centerline of south fence on eastwest road, 61 feet west of centerline of west fence on northsouth road, and 2 feet east of wire fence. Station is a U.S.C.&
G.S. and State Survey standard disk in concrete, 34 inches below
ground. Elevation: 1,303.5%2 feet.

A22-10-5E (Kana. Geod. S.) (Geory County, L.E. Conrad, 1934).-About 9 miles south and 1-1/5 miles west of Riley, Riley County,
3.55 miles east of Milford Pont Office, (along country roads),
in Swigst sec. P2, 7.10 S., R.5 E., Milford Township, on property
of Henry Miller, about 728 feet east of half-section line fence,
315.1 feet 190° (magnetic) from well, 170 feet 210° (magnetic)
from northwest corner of wagen scales, 50.9 feet north of centerline of road, and 1.6 feet east of wire fence. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches whove ground. No elevation has been determined for
this station.

A27-10.4E (Kans.Good.S.)(Grary County, L.E.Conrad, 1934).-About 9 miles south and 2 miles west of Riley, Riley County, 2.9
miles enet of Millord Post Office, (along country roads), in
RWSNN; sec. 27, T.16 S., E.5 E. Milford Township, on property

of A.B.Bens estate, 134.0 feet 260° (magnetic) from elm, 44.4 feet due south of centerline of north section-line road, 15.6 fert east of centerline of west section-line road, 34.4 feet south of eastwest wire fence, and 1.1 feet east of another wire fence. Sigtion is a U.S.C.& G.S. and State Survey standard disk in concrete. Elevation: 1,282.850 feet

A21-10-5E (Kana. Geod. S.)! Geary County, L.E. Conrad, 1314).-About 11.6 miles southwest of Siley, Riley County, 2.3 miles
southeast of Milford Post Office, (slong country roads), in SEISMS
wec. 21, 7.10 S., R.5 E., Allford Township, on croperty of Sylvia
Sanders, 242.2 feet west of north-south hnif-section line wire
fence, 59.4 feet north of south fance, and 19.4 feet morth of north
fence of east-west road, width of road 40 feet). Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, flush
with ground. Elevation: 1,265.700 feet.

A20-10-58 (Kans.Geod.S.)(Geary County, L.E.Conrad, 1914).-About 12 miles southwest of Riley, Hiley County, 1.85 miles southeast of Milford Post Office, in BigSit eec. 20, 7.10 S. R.5 E.,
Milford Township, on property of Bob Milson, on hill in castle
lane, 264 (sagmetle) from the Monroe farmhouse, 501.6 feet west
of corner fence post at southeast of sec. 20, 8.2 feet north of
section-line fence, and 2.3 feet south of north fence. Station
is a U.S.C.& G.S. and State Survey standard disk in concrete,
flush with ground. Elevation: 1,210.781 feet.

A30-10-5E (Kans. Geod. S.) (Ocary County, L.E. Conrad, 1934)...
About 10.2 miles northwest of Junction City, 0.35 mile south of Milford, in MilkEl acc. 30, T.10 S., R.5 E., Milford Township, on right-of-way of road adjacent to the Charles Chambers farm, \$4.4 feet west of wire fence east of road, 50 feet due south of corner of hedgerow at southeast corner of sec. 19, and 1.5 feet due east of wire fence and gatepost near intersection of sections 19, 20, 29, and 30. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,176.008 feet.

B30-10-5E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934)...About 13 miles abuthwest of Riley, Riley County, 0.4 mile south
of Milford Post Office, (along country roads), in NV4NE4 sec. 30.
T.10 S., R.5 E., on road right-of-way adjoining the Chambers farm,
south of water tower, 42.7 feet 205° (magnetic) from power pole,
25.7 feet 142° (magnetic) from southeast post of concrete bridge,
and 9.4 feet north of wire fence. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, flush with ground. Elevation: 1,125.610 feet.

A19-10-5E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934)...
In Milford, in north part of town, about 12.7 miles southwest of
Riley, Riley County, (along country roads), in NW\$NE2 sec. 19,
T.10 S., R.5 E., under city tower on property belonging to the
oity, 40.5 feet due north of wire fence, 17.1 feet 10° (megnetic)
from steel footing of southeast pole of water tower, and 10 feet
240° (magnetic) from a standpipe. Station is s U.S.C.& G.S. and
State Survey standard disk in concrete, flush with ground. Elevation: 1,206.484 feet.

B19-10-55 (Kans. Geod. S.) (Geary County, L.S. Conrad, 1934).-In Milford, in north part of town, about 12.9 miles southwest of
Riley, Riley County, (along country roads), in NEANW; sec. 19,
T.10 S., R.5 E., in Milford Cemetery, 95.00 feet azimuth 345°
(magnetic) from tombatone (MoDowell), 89.1 feet azimuth 320°
(magnetic) from tombatone (Martin), 75.8 feet due east of northaouth fence, and 1.6 feet from seat-west fence. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, 36 inchee below ground. Elevation: 1,194.136 feet.

A28-10-4E (Kana. Geod. B.) (Geary County, L.E. Conrad, 1934)...-About 12 miles northwest of Junction City, 1.0 mile southwest of Milford, in NESEE sec. 24, 7.10 B., R.4 E., Milford Township, on Union Pacific Railroad right-cf-way, 15.5 feet east of centerline of main track, 13.75 feet 92° (magnetic) from southwest corner and 5.4 feet 2:0° (magnetic) from southwest corner and 2.5 feet south of depot. Station is a U.S.C.4 G.S. and Stats Burvey standard diek in concrete, flush with ground. Elevation: 1.113.115 feet.

A25-10-4E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 13 miles northwest of Junction City, 1.6 miles southwest
of post office in Milford, in NWANES sec. 25, T.10 S., R.4 E.,
Milford Township, on property of A.W.Fawley, 529.1 feet east of
southwest corner fence post of SES sec. 24, 25 feet south of
north fence, and 0.5 feet north of south lane fence. The following bearing is from station: Milford water tower, 218°
(magnetio). Station is a U.S.C.& G.S. and State Survey standard
disk in concrete, projecting 1 inch above ground. Elevation:
1,195 feet.

B25-10-4E (Kans.Geod.S.)(Geary County, L.E.Conrad. 1934).-About 13.25 miles northwest of Junction City, 1.7 miles southwest
of post office in Milford, in NEANM, sec. 25, T.10 S., R.E.E.,
Milford Township, 789.1 feet west of southwest owner fence post
of 3E% sec. 24, and 1.1 feet north of south wire fence of eastwest road (width of road 60 feet). The following bearing is from
station: to Milford water tower, 220° (magnetis). Station is a
U.S.C.& G.&. and State Survey standard disk in concrete, flush
with ground. Elevation: 1,200 feet.

A34-10-4E (Rans.Geod.S.)(Clay County, L.E.Conrad, 19)4).-About 14-3/4 miles northwest of Junction City, Geary County, 5
miles southwest of Milford, Geary County, in NEANWS sec. 34,
T.10 S., R.4 E., on property of Wm. Restz, 1,052 feet east of
east fence of north-south section-line road, and 3.7 feet south
of south fence along east-west road. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, flush with ground.
Elevation: 1,253 feet.

B34-10-4E (Rens.Geod.S.)(Clay County, L.E.Conrad, 1934).--About 14-3/4 miles northwest of Junction City, Ocary County, 5.45 miles southwest of Milford, Geary County, in NV4NV4 sec. 34.

T.10 S., R.4 E., on read right-of-way, 152.6 feet 290° (magnetic) from northwest corner of the Hastz house, 110.7 feet from concrete culvert marked with cross, and 2 feet west of centerline of hedge fence. The following stimuth is from station: To windmill 310° (magnetic). Station is \$ U.3.0.8 G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,218 feet.

A\$1-10-48 [Kana.Geod.S.](Clay County, L.E.Conrad, 1934).-About 16 miles northwest of Junction City Geary County, 8.4 miles
scitthwest of Milford, Geary County, in SE2822 eec. 31, 7.10 S.,
R.4 E., 250 feet 70° (magnetic) from south wail, 228.1 feet 60°
(magnetic) from northeest corner of farmhouse, 23.4 feet 100°
(magnetic) from southeast corner of frame shed, and 5.1 feet west
of telephone pole. Station is a U.S.C.& J.S. and State Survey
standard disk in concrete, flush with ground. Elevation: 1,291
fact.

A6-11-4E (Rana.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
-About 2.7 miles north and 1 mile west of Upland, in SW28W2
eec. 5. T.11 S., R.W.E., Fragrant Hill Township, on the Jake
Altwick proporty, on hedgerow on east side of road leading to
Wakefield, 752.4 feet east and 38.5 feet north of WILMER triangulation station, 1.280.1 feet north of east-west section line, 25.6
feet south of eighth creocoted telephone pole north of east-west
section line. Station is s.U.S.C.& G.E. and State Survey standard
disk in concrete, projecting I inches above ground. Elevation:
1,304 feet.

96-11-4E (Kens.Geod.S.)(Dickinson County, L.E.Conred, 1934).
--About 15-3/4 miles northwest of Junction City Post Office, Geary County, 8.7 miles southwest of Milrord Post Office, Geary County, in SEANEQ sec. 6, 7.11 S., R.4 E., 968.) feet north of east-west half-section fence, 2.8 feet south of power pole, and 0.2 foot west of west work from fence of north-south road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete, flush with ground. No slewtion has been determined for this estation. ground. No elevation has been determined for this station

WILMER (U.S.C.& G.S.)(Dickinson County F.D.Granger, 1889; Kans.Geod.S., 1914).—About 10 miles north and 1 mile west of Chemman, 8 miles south-southwest of Wakefield, Clay County, 10 miles west-southwest of Milford, Geary County, in SE3E2; ec. 1, T.11 S., R.5 E., on lend owned (1889) by Rudolph Wilmer, who lived 1/4 mile to the southwest, and in 1934 by Glara Tomi. Station was originally marked as described in notes 1, 2, and 3. In 1922 no surface marks were found. The underground mark is probably in position. The ozimuth and distances to certain points are: bench mark Ai-11-3E, 1,051 reet 14-14-16/83; A6-11-4E, 750 reet, 267-38:26°; Wakefield water tower, 190°29'; cupola of schoolhouse, District 75, Clay County, 255°17'26°; bench mark 86-11-4E, 245'15'. Elevation: 1,355 feet.

Flans coordinates: (N), x ° 2,272,551.46 feet; y ° 288,388.33

Plans coordinates: (N), <u>x</u> = 2,272,551.46 feet; <u>y</u> = 288,388.33

Riley and Ceary Counties

From U.S.C.4 G.S. triangulation station ERRICESEN (described elsewhere in this publication) to Alg-12-6E (on HUMBOLDT to ROBBINS

No coordinates have been established for stations in this line.

A24-10-6E (Kene.Geod.3.)(Riley County, L.E.Conrad, 1934).--About 5.5 miles west of Manhattan, 4.55 miles south of Keats, 4 miles north of Ogden (along country roads), approximately 1.5 miles from ERRIOSEN, near range of hills on west and east, in NWiNNi sec. 24. T.10 S., R.6 E., Ogden Township, on land owned by A.Lundguist, 295,3 feet due west of east wire-and-rock fence of north-south road, 253.3 feet due west of southeast corner of rock fence, 1.5 feet due south of rock fence, 2.5 feet due east of wire fence, and 2.95 feet (magnetic) from vertical stone at intersection of sections 13, 14, 23, and 24. Station is a U.S.C. & G.B. and State Survey standard disk in concrete, 3 feet in ground. Elevation: 1,199,472 feet.

B24-10-6E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934), -About 9 miles west of Manhatten, 5.1 miles south of Keats, 3.5
miles morth of Ogden (along country roads), in NwiSwi sec. 24,
7.10 S., R.6 E., Ogden Township, on land owned by John Miller,
400 feet north (magnetic) and 206.9 feet east (magnetic) of
northeast corner of the C.E.Dobson house, 180 feet seat of post
at northwest corner of Swi sec. 24, 30° (magnetic) from windmill
which is 48.4 feet from northeast corner of house, 92.2 feet
west of post at intersection of wire fence east of road, and 0.5
foot south of centerline of fence. Station is a U.S.C.& 6.8.
and State Survey standard disk in concrete, 32 inches below
ground. Elevation: 1,197.248 feet.

#23-10-5E (Kans. Good. S.) (Riley County, L.E. Conrad, 1914)...
About 9.3 miles west of Manhattan, 5.4 miles south of Keats, 3.2 miles north of Ogden (along country roads), in BE\$3E\$ sea. 23, 7.10 S., R.6 E., Ogden Township, on land owned by J.E. Marks, 465,3 feet 220° (magnetic) from atone which is 212.3 feet east of correr fence post, at northeset corner F&\$E\$ sec. 23, 331,4 feet 192° (magnetic) from corner fence post at intersection of road fence and querter-section fence, 181,5 feet east (magnetic) of rook fence, 37 feet east (magnetic) of fence on west side of road, 64 steps 20° (magnetic) from northeast post of wood bridge, 2.7 feet east (magnetic) of wire fence, and about 0.27 mile from atotion B24-10-65. Station is a U.S.C.& G.S. and State Survey atandard disk in concrete, 14 inches below ground. No slevation has been determined for this station.

821-10-6E (Kana.Geod.S.)(Hiley County, L.E.Conrad, 1934).-About 9.5 miles west of Manhattan, 5.6 miles south of Keata, 3
miles north of Ogden (along country roads), in SE18E2 sec. 23,
T.10 S., R.6 E., Ogden Township, on land owned by J.E.Marke, 637

feet east (magnetic) of room fence west of model, as to read of feet east (magnetic) of east whre fence along such a set, and 310 steps 125° (magnetic) from contineast corns of the Morke farmhouse, 3.1 feet morthwest of pile of above meet the model of eattern 23, 24, 25, and 35, and 9.5 feet west of st. swore. Station is a 0.8.0.46 0.5, and 36.4 survey sermined ins, to concrete, 35 inches below ground. Elevation 1.250.00; (est.

A2-11-62 (Kane.Gech.S.)(Riley County, told minds, which about 12.3 miles southwest of Maninettan, its miles academy at at Reste, 1.8 miles northwest of Egden Fost Office (along country roads), in NEANE etc. 7:11 S., R.S.E., on the dischministry about Verbelbaum of Ogden, approximately 1 - miles, and (second) from station 82-11-65, about most any further of the most of from station 82-11-65, about the work of further of the most from the following the marked C.R.1-7, and 5.4 feet south of most interest constant west roads (width of east-west roads force to fence to 4 in feet). Station is a U.S.C.& C.S. and State Survey standard disk in concrete, 35 Inches below ground. Elevation: 1,184.518 feet.

B2-11-6E (Kans.Gaod.S.)(Riley County, L.W.Comend. (94%) .About 12.5 miles southwest of Machatian, 8.6 miles anothwest of Kesta, 2 miles northwest of Ogden (along country roads), in lot 1, NE4NE4 sec. 2, T.11 S., R.A.E., Ogden Township, or tand remed by Rose Weichselbaum, 1,703.7 foet due soun of fence an earth side of east-west road, 428 steps due north of fence an earth side of east-west road, 428 steps do? (asgnite) from will with windmill, 135.8 feet due north of east-vest division fence, 300° (magnetic) from Ogden Catholic Charco, 7.6 feet due month of three-trunk hadeberry tree, and 0.6 feet due west of resth-coult fence. Station is s U.S.C.4 G.S. and State Survey standard disk in concrete, 16 inohes below ground. Slevation: 1,175 700 feet.

- l (Kana, Geod. S.) (Riley County, L.E. Conrad. 1934). ... About it miles southwest of city limits of Manhattes. 2.9 wiles west of Ogden Post Office (along country conds), on Fort Riley Military Reservoiton, in 7.11 S., R.6. E., 1817.81 feet 1946 (magnetic) from stone on reservation line, 1.016 steps 1446 (magnetic) from northeast corner stone of reservation, 138.6 feet east of fence, 166 (magnetic) from battery butts, and 2.16 feet south of reference atone which projects 1.6 feet above ground, marked with "+" and "U.S." Station to a U.S.C.& O.S. and State Survey standard disk in concrete, 32 inches below ground. No elevation has been determined for this station.
- 2 (Kans. Geod. S.) (Riley County, L.E. Conran, 1914)...About 7.75 miles northeast of Junction City, Geory County, alour U.S. Righway 408, about 1.6 miles southwest of Ogden, on dummer Hill (Fort Riley Military Reservation) in T.11 S., R.6 E., 182 steps 345° (angnetic) from Syth Division monument, 214 steps 146° (megnetic) from centerline of highway, 271 feet 155° (magnetic) from northeast corner of northeast foundation of old Camp Function water tank (messured from mark ***), 58.7 feet 126° (magnetic) from reference stone marked ****, and 16° (megnetic) from ruine of the General Wood home. Station is a U.S. C.** G.S. and State Burvey standard disk in concrete, 34 inches below ground. No elevation has been determined for this station.
- 3 (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934).--About 7.75 miles northeast of Junction City, Geary County, 1.6 miles southwest of Ogden, on U.B. Highway 405. on old Camp Functon grounds. on Fort Riley Military Renerration, T.li S., R.6 E., 571.3 feet 330° (magnetic) from powder magnaine, 511 feet 267° (magnetic) from foutheast end of concrete oulvert, and 31 feet 148° (magnetic) from contentine of pavement of highway. Station is a U.S.C.& G.B. and State Survey etandard diek in concrete, 35 inches under ground. No elevation has been determined for this station.
- 4 (Kans. Good. 8.) (Riley County, L. E. Conrad, 1984). -- About 2 miles southwest of Ogden Post Office, northeast of Junction City Post Office, Geary County, (clong country roads), on Fort Riley Military Reservation, and on Camp Functon grounds. Distance, direction, and smith the centerline of main track of Union Pacific Railroad are 120.6 feet 150° (magnetic); from point on track to bolt at northeast corner of base of semaphore 1322, 950.6 feet 60° (magnetic); 89th Division monument 230° (magnetic). Station is a U.S.C.& G.S. and State Survey standard disk in concrete. No elevation has been determined for this station.

A22-11-6£ (Kans. Good.S.) (Deary County, L.E. Conrad, 1948).--About 7 miles southwest of Ogden, Riley County, 6.1 miles northeast of Junction City Post Office, (along country roads), in Nwitwi sec. 22, 7.11 S., R.6 E., on land owned by Russell waily, 904.5 feet north of east-west quarter-mile fence, 147 steps from north-south section line on west side of section 22, 105 feet west of elm tree, 0° (magnetic) from Fort Riley Air Beacon, and 14.4 feet west of cross 8.0 miles from reference atone on north bank of old river bed. Station is a U.S.C.& G.S. and State Survey standard disk in concrete. Elevation: 1,062.956 feet.

- X (U.B.C.& C.B.) (Geory County, Kana.Geod.S., 1974)...In Fort Riley, at Union Pacific Rellrood station, at east size of southeast corner on only amoothly dressed portion of atone water table. Station is a chiesled cross flanked by the letters "UBBM." U.B.C. & G.B. elevation: 1,069.76% feet.
- 5 (Kans.Good.S.)(Riley County, L.E.Conrad, 1934). --About 7.75 miles southwest of Cgden Post Office, 5.4 miles northeast of Junction City Post Office, Genry County, (along country reads), on Fort Riley Rilitory Reservation, (Marshall Field), 2,715.2

lest 142 impractical irom southeast corner of simpleme hangar 2, 11.4 Sunt. 2727 (magnetic) from sirway beacon, and 1.6 feet south of reconvention thre wire fence. Station is a U.S.C.& G.B. and State Survey standard disk in concrete, 16 imples below ground. By elevation for beac determized for this station.

- 6 (Kana, Head, C., 19 Party Chapty, L.E. Conrad, 1934). -- About 8.2 miles sentiment of Ogden Post Office, Miley County, 5 miles northeest of insetter lity fast Office, Galong country roads), on Port olley Military Reservation (Marsall Field), 113 feet 150° (magnett) firm mortheest corner and 21.5 feet 80° (magnett) from southeast corner of miritane magnet 2. Station is a U.S.C.& 6.3. and State Survey standard disk in concrete. No elevation has reen leter in 1 for this station.
- ? iKana.Geoild.}(Geary County, U.E.Conrad, 1934).--About 9.95 miles southwest of Ogden Fost Office, Hiley County, 3.7 miles settlesset of Junction Gity Post Office, (along country roads), on the south line of Marchail Field, on Fort Riley Military Reservation, to T.12 5. R.5 E., 1,402.7 feet 270° (magnetic) from north-west worner stone farmhouse, 0.2 foot south of seat-west, where fence worth of road, said bearing 185° (magnetic) from southwest corner of the Karchaill Field hanger 1. Station is a U.B.C.& G.S. and State C.rvev standard dies in concrete, flush with ground. No elsvation has been determined for this station.

A4-12-6E (Kens.Geod.S.)(Geary County, L.E.Conrad, 1934)....
About 10.6 miles coutowest of Ogden, Riley County, 3 miles northeast of Junction City Fost Office, (along country roads), in
Swiswi sec. - T. 1.2 S. R. E. E. on property of Lightenham, 196
feet 250° (magnetic) from wall, 150.9 feet 260° (magnetic) from
southwest corner of the Lightenham house, and 0.5 foot east of northacuth fence. Stalion is a U.S.C. & S. and State Survey standard
disk in concrete, flush with ground. Thevation: 1,074.559 fest.

A17-12-66 (Knns.Geod.S.)(Genry County, L.E.Conrad, 1934).-About 13.5 miles southwest of Ogden Post Office, Riley County,
7.25 miles southwest of Junction City Post Office, (along country
roads), in NM\$582 oct. 17, 7.12 S., R.6 E., on property owned by
Paul Kremer, 351.2 feet sast of corner stone at center of section
17 (marked line 1), 2.6 feet 50° (magnetic) from east wire fence
along road, 2.5 feet south of east-west half-section wire fence,
and 12° (magnetic) from District 18 schoolhouse. Station is a
U.S.2.2 9.8. and State Survey standard disk in concrete, flush
with ground. Elevation: 1,284.504 feet.

Bi?-ir-6h (Kara. Seed. S.) (Geary County, L.E. Conrad, 1934).--About 14 miles southwest of Ogden Post Office, Riley County, 2.6 miles scuthedat of Junction City Post Office, (along country roads), in SM\$SE\$ see. 17, T.12 S., R.6 E., on road right-of-way, 967.8 feet 340° (magnetic) from intersection of east-west section line (wire fence) and north-south quarter-section line (wire fence), and 0.4 foot 70° (magnetic) from west fence along road, Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,310.331 feet.

Riley and Pottawatomie Counties

From U.S.C.& 9.5. triangulation station ERRICSSEN (described elsewhere in this publication) to U.S.C.& 0.8. triangulation station ZEAN DALE (described elsewhere in this publication).

No coordinates have been established for stations in this line.

Bli-10-of (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 8 miles west of Manhattan, 6 miles morth of Ogden, 2 miles
south of Keste, (along country roads), in SEREE sec. 11, T.10 S.s.
8.6 E., Wildest Township, 0.3 mile south of east-west section
line, between sections 2 and 11, 0.5 mile due north of station
All-10-6E, 846.3 feet north of north line of SM4 of section 12,
167 steps northwest of northwest corner of atoms house (in ruins),
1.45 feet east of west wire fance along north-south road, and
N.40°W. (magnetic) of ERRICSSEN. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, 30 inches below ground.
Elevation: 1,117.357 feet.

A36-9-5E (Rans.Good.S.)(Riley County, L.E.Conrad, 1934).-About 15 miles northeast of Milford, Geary County, S.1 miles north
of Cgden, 7.4 miles northwest of Manhattan, [along country roads),
in Smiles sec. 16, T.9 B. N.6 E., Wildcat Township, on land owned
by Chicago, Rock Island & Pacific Railroad, 191.5 feet N.74*N. of
northwest corner of Kests ratiroad station, 120 steps N.84*N. of
southwest corner of elevator (Huise Lumber Company), 59.2 feet
north of contectine of north rati of main line of ratiroad, 70.36
feet N.70*E. of center foundation bolt on north side of mail orane,
int. 3 feet west of milenost 152.15, 0.75 foot west of west edge of
north-anuth aidewalk and S.16*E. of station B36-9-6E. Station is
a U.S.C.& G.S. and State Survey atendard disk in concrete, 38
inches below ground. [Tablet is 2 inches below ground.) Eleva-

B36-9-6E (Kans.Good.S.)(Riley Gounty, L.E.Conrad, 173h).-In the village of Keats, about 15-3/4 miles northcast of Milford,
Geery County, 8.35 miles north of Ogden, shout 7.4 miles northwest of Manhattan, (slong U.S.Highway 40N), in NW45E4 sec. 36,
T.9 S., R.6 E., Wildost Township, in northcast scener abone of
entrance of Keste Public Schoolhouse (brick schoolhouse), 194.4
feet S.30°M. (magnetic) of station 016-9-6E, 70.65 feet west of
east sidewalk (sidewalk on west side of north-south read), 21.95
feet from northeast corner of building, 1.85 feet up from walk,
and 0.9 foot from north edge of stone. Station is a U.S.C.4 0.3.
and State Survey standard disk in concrete. Flevation: 1,151.573
feet.

C36-9-6E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-In Kests, about 15-1/4 miles northeast of Milford, Geary County,
8.4 miles north of Ogden, 7.4 miles northwest of Manhattan, along
U.S. Highway 40N, in NW38E3 sec. 36, 7.9 8., R.6 E., Wildest Township, near land owned by W.D. Ayers, 137 feet N.25°N. (magnetic)
of northwest corner of stone house, 64 steps N.55°E. (magnetic)
of filling station pump, 0.53 foot south of wire fence on north
side of U.S. Highway 40N at intersection of north-south road through
Keats, and N.30°E. of BM 1-4. Station is a U.S.C.& U.S. and
State Burvey standard disk in concrete. Elevation: 1,137.795

D36-9-6E (Kana.Geod.S.)(Riley County, L.E.Conrad, 1934)...
About 16 miles northeast of Milford, Geary County, (along country roads), 7.1 miles northwest of Manhattan, (along U.S. Highway 40N), about 0.3 mile southeast of Keats, in NESEE sec. 36, T.9 S., R.6 E., Wildcat Township, south of land owned by Bill Craven, 0.25 mile N.60°W. (magnetic) of intersection of road with section line, between sections 31 and 36, 694.35 feet 8.60°E. (magnetic) of northeast corner post of bridge railing (256 steps southeast of 36-9-62), 76.5 feet north of south fence, 8.60°W. of peak of hill, and 1.1 feet south of north fence of road. Station is a U.S.O.& G.S. and State Survey standard disk in concrete, 32 inches below ground. Elevation: 1,144.011 feet.

A5-10-7E (Kana.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 5.5 miles northwest of Manhattan along U.S.Righway 40N,
1.9 miles southeast of Keats, in NW43W4 sec. 5. T.10 S., R.7 E.,
Wildcat Township, on land of M.A.Goff (who owns land on both
sides of road), 0.25 mile north of white house (green roof),
N.50°E. (magnetic) of southeast wing of bridge, at intersection
of road, 15.1 feet southeast of northeast corner of east post of
bridge elab, 1.1 feet northwest of northeast corner of east wingpost, 1.1 feet northeast of northwest corner of wingpost and 0.85
foot north of north center of wingpost. Blatton is a U.S.C.&
G.S. and State Survey standard disk in concrete, 4 inches below
ground. Elevation: 1,112.751 feet.

B5-10-7E (Kans.Geod.S.)(Riley County, L.E.Gonrad, 1934)... About 5.0 miles northwest of Manhattan, 2.4 miles southeast of Kasts, along U.S.Highway 40N, in SW\$9E\$ sec. 5, T.10 B., R.7 E., Wildcat Township, on the Bruch Wilson farm, 790.5 feet north of centerline of Chicago, Rock Island & Facific Railroad tracks, 25.5 feet north of power line poles, and 15 steps from haif-mile line (road from fence to fence 62 feet wide). Station is a U.S. C.& G.S. and State Survey standard disk in concrete, 32 inches below ground. Elevation: 1,135.956 feet.

1-1 (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).--About 4.55 miles northwest of Manhattan, 2.55 miles southeast of Keats (by speedometer), along U.S.Highway 40N, 0.15 mile from 85-10-7E, between 85-10-7E and 05-10-7E, 10 80 sec. 5, T.10 S., R.7 E., Wildcat Township, in north curb of bridge, and 10.1 fest west of end of bridge. Station 19 a monel metal rivet. Elevation: 1,105.016 feet.

C5-10-7E (Same.Good.S.) (Riley County, L.E.Conrad, 1934)...
About 3.5 miles morthwest of Manhattan, 3.6 miles southeast of Reats (by opendemeter). clong U.S. Highway UON, in SW\$925 sec. 5, T.IO S., N.7 E., Wildest Township, on grounds of School District 17, 182-7 feet 100° (magnetic) from southwast corner of schoolhouse, 75 feet 120° (magnetic) from southeast corner of schoolhouse, 75.3 feet 140° (magnetic) from northeast corner of schoolhouse, and 4.9 feet morth of morth fence along road (65.5 fest wide between fences). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 74 trokes below ground. Elevation:
1.112.849 feet.

A9-10-75 (Eaus. Seed. S.) (Riley County, L.E. Conrad, 1914).About 3.7 miles morthwest of Manhattan, 3.7 miles moutheast of
Reasa (by speedsmeter), along U.S. Highway 40N, in NWiNNi acc. 9.
7.10 S., R.7 E., Wildcat Township, on land owned by R.L. Ellis,
181 feet 120° (magnetic) from the Ellis barn, 204 etems 150°
imagneste) from EM C5-10-7E, and 30 feet due north of north fence
along read. Station is a U.S.C.4 G.S. and State Survey standard
disk in concrete, 33 inches below ground. Elevation: 1,136.679
feet.

B9-10-7E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).—About 3.45 miles northwest of Manhattan, 3.95 miles southeast of Keats (by speedometer), along U.S.Highway 40N, in NEASE4 sec. 9, 7.10 S., R.7 E., Wildeat Township, 688 feet dus north of centerline of Chicago, Rock Island & Pacific Ratiroad tracks, 58 feet south of power pole, 54.5 feet 110° (magnetic) from telephone pole, and 3.7 feet northwest of southwest corner post of bridge, in line with posts on south side of bridge. Roadway over bridge is 31 feet, span of bridge is 6 feet, and road runs W.20°N. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 40 inches below ground. Elevation: 1,110.755 feet.

1-2 (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).--About 4.25 miles aoutheast of Keata, 2.15 miles northwest of Manhattan, (by speedometer), along U.S.Highway 40N, in SERSE sec. 10, T.10 S., R.7 E., Manhattan Township, and 17.3 feet east of west end post on north side of bridge. Station is a monel metal rivet. Elevation: 1,061.077 feet.

Al4-10-7E (Kana, Geod. S.) (Riley County, L.E. Conrad, 1934).-About 5.9 witer southwast of Keats, 1.5 miles west of Manhattan,
(by speedometer), along U.S. Highway 40N. on highway right-of-way,
in NeiWai sec. 14, T.In S., R.7 E., Manhattan Township, 487.7 feet
due north of centarline of Chicago, Rock Island & Pacific Railroad
truck, 247.9 feet 46° (magnette) from northeast corner of frame
farmhouse, 155.5 feet 15° (magnetic) from southeast corner of
frame farmhouse scross road, 31.2 feet south of centerline of pavement with 60-font right-of-way, 4, 9 feet west of power pole in
line with north-south fence, between NeiNwi sec. 14, and 1.5 feet
north of north fence along highway. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, 3% inches below ground.
Elevation: 1,054,624 feet.

All-10-7E (Kana.Geod.3.)(Riley County, L.E.Conrad, 1934).-About 6.15 miles southeast of Kests Post Office, 1.25 miles west
of Manhattan city limite, (speedometer), along U.S.Highway WON,
in Sci3e3 sec. 11. 7.10 S. R.7 E., 226.6 feet 40° (angentic)
from northeast corner of the Ed. Haid house, 64 feet south of
north fence on highway, 15.7 feet north of south wire fence on
highway, 16.95 feet south of centerline of slab, and 2.45 fest 208°
(magnetic) from drainage warning post south of road. Station is a
U.S.C.& G.S. and State Survey standard disk in concrete, 38 inches
below ground. Elevation: 1,049.468 feet.

A7-10-8E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934),—About 2 miles northwest of Manhatten Post Office, on south side of Kansas State College baseball field, in Manhattan, near intersection of College Heights Road and first road west of Engineering Building, on college campus, in lot 22, sec. 7, T.10 S., R.S. E., 239.1 feet 322° (magnetic) from morthwest corner of Engineering Building, 73.7 feet north of north fence of College Heights Road, 63.9 feet due west (outside edge) of southeast corner of baseball field, and 3.4 feet south of wire fence on north side of College Heights Road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 35 inches below ground. Elevation: 1,051.550 feet.

B7-10-SE (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).-About 2.9 miles northwest of Manhattan Post Office, O.S mile north
of college power plant stock, in lot 5, sec. 7, T.10 S., R.S.E., on
land owned by Kansas State College, 1,013.9 feat east of west
fence of north-south road, 961.7 feet east of east fence of northsouth road, between lots 5 and 6, 323 steps south of north fence
of lot 5, 1322 (magnetic) from house, 177 feet west of north-south
fence, and 178.7 feet south of east-west fence. Bistion is a U.S.
C.& G.S. and State Survey standerd disk in concrete, flush with
ground. Elevation: 1,130.635 feet.

A15-10-8E (Kans.Geod.S.)= C115 (U.S.C.& G.S.)(Riley County, L.E.Conrad. 1934).--About 2 miles northwest of Manhattan Post Office, south of Engraving Building on campus of Kansas State College, in lot 4, sec. 18, 7.10 S., R.É.E., 25 feet south of north curb of east-west road in front of building, 9 feet south of south curb of paved east-west road in front of building, 191.15 feet, 95° (magnetic) from southwest corner of building, 192.5 feet, 230° (magnetic) from southeast corner of building, and 41.55 feet south of center of main entrance of building (first step). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. U.S.C.& G.S. elevation: 1,073.227 feet.

B18-10-2E (kans.0eod.8.)(Riley County, L.E.Conred, 1934).—About 1.75 miles northwest of Manhattan Poet Office, on campus of Kaneas State College in Manhattan, in lot 3, sec. 13, T.10 B., R.5 E., 511.5 feet 140° (magnetic) from southwest corner of the president's house, 284.8 feet west of ourb on west side of Manhattan Avenue (width of avenue is 50.2 feet), 227.7 feet west of stone wall on west side of Manhattan Avenue, 39.4 feet south of east-west road, and 15.2 feet south of south curb of east-west road, and 15.2 feet south of south curb of east-west road at Vattier entrance. Station is a U.B.C.& G.S. and State Survey standard disk in concrete, 36-1/2 inches below ground. Elevation: 1,026.873 feet.

C18-10-8E (Kens.Gecd.S.)(Riley County, L.E.Conrad, 1934).—About 0.9 mile northwest of Manhattan Post Office, on parking of Bluemont Avenue school grounds, in sec. 15, T.10 S., R.S.E., 215.6 feet 50° (magnetic) from northeast corner of Bluemont Avenue schoolhouse, 17.5 feet west of west curb of Juliette Avenue (34.7 feet wide), 8.9 feet south of south curb of Vattier Street (50.1 feet wide, measured from inside of curb), and 0.45 foct north of north edge of east-west sidewalk. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 4 inches below ground. Elevation: 1,013.330 feet.

P15-10-8E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934).—
In Manhattan, in lot 203, sec. 15, T.10 B., R.S E., 1 block west
and 1 block north of Manhattan Fost Office, near intersection of
Foyntz Avenue and 5th Street, in corneratone of Riley County
Courthouse, 0.97 foot east of southwest corner of building, 4.55
feet down from corneratone merked "1906," and 3 feet up from
level of sidewalk. Station is a U.S.C.& G.B. and State Survey
standard disk in concrete. Elevation: 1,018.779 feet.

A9-10-2E (Kans.Geod.S.)(Pottawatomic County, L.E.Conrad. 1934).—About 2 miles east of Menhattan Poet Office, Riley County, in NE38% sec. 9, T.10 S., R.S E., on the J.L.Johns property, 35.3 feet south of centerline of slab of U.S.Highway 40N, 661.2 feet 64° (magnetic) from east line of Blue River Bridge (magnetal along centerline of highway), and 239.0 feet 342° (magnetal) from northwest corner post of the Johns residence. Station is a U.S. C.& G.S. and State Survey standard disk in concrete, projecting linch above ground. Elevation: 1,008.601 feet.

B9-10-2E (Kans.Geod.S.)(Pottawatomic County, L.E.Conrad, 1934)...-About 5.8 miles west of Smint George Post Office, 2.4 miles east of Manhattan Post Office, Riley County, along U.S. Michway Mo, in NwiBE1 sec. 9, T.10 S., R.S. E., on property of Dave Carlson, 422.5 feet 70° (magnetic) from southwest corner of concrete culvert, 14.1 feet south of centurline of concrete slab of highway, (width of road 67.5 feet), 11.5 feet south of sastwent wire fence on south side of highway, and 1.45 feet east of

north-south eiro femer. Station is a U.S.C.& G.S. and itate Survey standard disk to concrete, projecting 1 then above ground. Elevation: 1,014.775 (eer.)

Att-10-86 (Kans. Good. S. /(Fottawatomie County, i.e. Counad, 1934).—About 4.9 miles west of Saint George Post Office, 3.35 miles enst of Manha and Fost Office, Rijey County, along U.S. Highway No. 1s NRS. 4 mea. 16, 7.10 d., 8.8 E., on property of F.C. Olenn, 181.2 feet scath-Acuthent of scath-Ass corner post of concrete oulvert on north-acuth road, 1602 (magnetic) from south-east corner post of courete culvert on north-acuth road, 113.4 feet south of control bighowy fonce, 79.5 feet south of centerline of slat on highway, 5. feet west-northwest corner of foundation of the Olenn house, and 2 feet west-northwest corner of foundation of the Olenn house, and 2 feet east of east lence line of north-oruth road. Station is a U.S.C.& O.S. and State Survey standard disk is concrete, flush with ground. Elevation: 1,014.527 feet.

All-10-SE (Kane. Good. S.) (Pottawatomic County, L.E. Conrad. 1934)...About 4.4 miles west of Saint George Post Office, 3.85 miles east of Manhattan Post Office, Riley County, on U.S. Higheay 40, in southeast corner of curb of concrete culvert in NW\$SW\$ eec. 11, 7.10 S., R.S. E., (culvert between sections 10 and 11). Distance, direction, and saimuth to certain points are: centerline of Union Profife Haifrood tracks, 745.1 feet south; conterline of Union Profife Haifrood tracks, 745.1 feet south; conterline or also on U.S. Highway 80, 103.4 feet corth; south side of south rail post of culvert, 0.7 foot north. Station is a U.S.C. & G.S. and State Survey standard disk in concrete. Elevation: 1,002.689 feet.

Bil-10-6E (Kana, Geod. S.)(Fottawatomic County, L.E.Conred, 1934).—About 4.65 miles east of Manhattan Post Office, Riley County, 3.4 miles west of Saint George Fost Office, in NE4BER sec. 11, 7.10 B., R.S.E., on land owned by D.B. Walker, 38.2 feet south of centerline of U.B. Highway 40N, 73.5 feet south of fence along highway, 225.6 feet 160° (magnetic) from northeast owner of the Walker house, and 110° (magnetic) from schoolhouse. Station is a U.B.C.& O.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 999.117 feet.

A12-10-8E (Kana.Geod.S.) (Pottawatomic County, L.E.Conrad, 1934). --About 5 miles east of Maniattan Post Office, along U.S.Highway 1011, 135 miles from Saint George Post Office, along U.S.Highway 1011, in NW18W1 sec. 12, T.10 S., R.E., on property of G.S. White, 49,7 feet south of canterline of highway, 24.4 rest 300° (magnetic) from northwest corner of the G.A.White house, 19.6 feet south of north yerd fence, and 1.4 feet saat of west yard fence. Station is a U.S.C.&.G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,005.230 feet.

A7-10-9E (Kans. Geod. S.) (Pottswatomie County, L.E. Conrad, 1932). --About 6.65 miles enat of Manhattan Post Office, Riley Gounty, 1.4 miles west of Saint George Post Office, along U.S. Highway 40, in lot 7, NE389% sec. 7, T.10 S., R.9 E., on the W.H. Bush property, 110.6 fest south of centerline of slab of highway, 74 feet 310° (megnetic) from northmost corner and 65.15 feet north of northwest corner of the Bush house, and 61.4 feet west of yard fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,055.162 feet.

AS-10-9E (Kans. Good. S.) (Pottawatomie County, L.E. Conrad, 1934).--About 7.1 miles east of Manhettan Poet Office, 1.15 miles west of Saint George Post Office, in SEINWI sec. S. 7.10 S., R.9 E., on right-of-way, at intersection of U.S. Highway 40 and County Highway 917, 181.3 feet 300° (magnetic) from a cross marked on concrete culvert on Highway 40, 162.1 feet north of centerline of slab on Highway 40, and 64.5 feet 350° (magnetic) of large mulberry tree. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,070.562 feet.

A9-10-9E (Kane. Geod. S.) (Pottawatomic County, L. E. Conred, 1934). --About S.1 miles eact of Manhattan Post Office, Riley County, 0.15 mile west of Saint George Post Office, along U.S. Highway 40, on west bank of Black Jack Creek, in NW\$5W\$ sec. 9, T.10 S., R.9 E., on the John H. Cary property, 75.4 feet south of southwest corner of concrete barn foundation, 63 feet 260° (magnetic) from mark "X" on southwest corner of bridge, 56.1 feet south of centerline of slab on highway, 26 feet 300° (magnetic) from fence on west side of creek, and 1.5 feet south of south fence along road. Station is a U.S.C.& G.S. sand State Survey standard disk in concrete, flush with ground. Elevation: 1,004.656 feet.

U (U.S.C.& G.S.)(Pottawatomis County, Kans.Geod.S., 1934).-In Baint George, at brick store owned by J.D.Robertson, at east
window in front of south side of building, to right of entrance
and on stone window cill. Station to bottom of a square hole,
currounded by the letters "USBM." U.S.C.& G.S. elevation:
1.00\.102 feet.

B9-10-9E (Kans.Geod.S.)(Fottawatomis County, L.E.Conrad, 1934)...In Saint George, about 8.3 miles east of Manhattan Post Office, Riley County, in SEi384 sec. 9, T.10 S., R.9 E., about 2 blocks east of post office, on U.S.Highway 40, on the John Rowe property, 53.9 feet west-southwest of southeast corner and 35.5 feet 180° (magnetic) from southwest corner of the Rowshouse foundation, 50.6 feet 200° (magnetic) from wire fence on west side of lot, 15.6 feet 190° (magnetic) from centerline of retaining wall on south side of lot. Bation is a U.S.C.& G.S. and State Survey standard disk in concrete, 2 inches below ground. Elevation: 1,027.214 feet.

U.S.G.S. (Pottawatomic County, Kans.Geod.S., 1934)...Just southeast of Saint George, and on southwest corner of old stone abutment on north end of bridge S. Station is a U.S.G.S. standard disk. No elevation has been determined for this station.

A28-10-9E (Kans. Geod. B.) (Riley County, L.E. Conrad. 1934)... About 11.4 miles southeast of Manhattan Post Office, 3.25 miles abuthment of Smint George Post Office, Pottawatomic County, in NEWNE, sec. 26, T.10 S., R.9 E., on land owned by Bennett of Manhettan, 110.3 feet from wire fence on north-south eighth-mile line, 147.8 feet 272° (magnetic) west of corner post at interception of north-south eighth-mile fence with east-west quarter-mile fence, 583.6 feet went of wire fence along north-south road (width of road ht.3 feet), 210° (wagnetic) from rook house across highway, and 100° (magnetic) from frome house. Station is a U.S.C.& C.S. and 3tate Survey station disk in concrete, flush with ground. Elevation: 1.108.437 feet.

A3-11-98 (Kana.Gaod.S.)(Riley County, L.E.Conrad, 1934).-About 13.4 miles southeast of Manhattan, 5.3 miles south of Saint
Georga Post Office, bottawatomis County, (along country roads), in
NWHWH sec. 4, T.11 S., R.9 E., on land owned by Hayden, 871.3 feet
west of north-south quarter-mile fence of section 3, 200° (magnettic) from ananoned farminose, 37 feet sect of centerline of
hedge fence on west side of section 34, and 3.2 feet south of centerline of shome-end-wire fence on south side of section 34.
Blatter is a U.3.C.& G.S. and State Survey standard disk in
concrete, projecting 2 inches above ground. Elevation: 1,108.442
feet.

BY-11-9E (Kans. Geod. S.) (Riley County, L.E. Conrad, 1934).-About 13.7 miles southeast of Manhattan, about 5.6 miles south of
Saint George Post Office, Pottawatemic County, (along country
roads), in ground in NW2NW2 sec. 3. 7.11 S., R.9 E., on land
owned by Hayden of Topeks, 1,222.4 feet south of wire fence on
north line of sec. 7, and 1.1 feet west of north-south quartermile line of sec. 3. Station is a U.S.C.& G.S. and Btate Survey
standard disk in concrete, 15 inches below ground. Elevation:
1.138.554 feet.

AS-11-9E (Kans. Geod. S.) (Riley County, L.E. Conred, 1934).-About 4.1 miles (auto) south of Zeandale, in northeast corner
NE4SE4 sec. 5, T.11 S., R.9 E., in schoolyard of District 44, 58.8
feet east and 4.3 feet south of northeast corner of schoolhouse,
in line with north wall, 51.8 feet north and 25.7 feet east of
flagpole, 6.9 feet north of sidewalk leading to schoolhouse, and
0.25 foot inside present fence line. Station is a U.S.C.& G.B.
and Btate Survey standard disk in concrete, projecting 3 inches
above ground. Elevation: 1,102.700 feet.

A9-11-9E (Kans.Omod.S.)(Riley County, L.E.Conrad, 1934).-About 14.9 miles noutheast of Manhattan, 6.8 miles southeast of
Saint George Post Office, Pottawatomie County, (along country
ronds), in BESS2 acc. 9, 7.11 S., R.9 E., on road right-of-way,
22 feet west of wire fence between sections 9 and 10, 0.8 foot
north of wire fence on south side of east-west road, and due east
of stone achoolhouse, District 44. Station 19 a U.B.C.& G.B. and
State Survey standard disk in concrete, projecting 2 inches above
ground. Elevation: 1,214.260 feet.

Al0-11-9E (Kans.Geod.S.)(Riley County, L.E.Conrad, 1934)...About 15.4 miles southeast of Manhattan, 7.5 miles southeast of
Saint Ocorke Post Office, in Swished soc. 10. 7.11 S., R.9 E., on
land owned by R.R.Perry of Manhattan, 1.7 feet west of northsouth quarter-mile line, 1,565.7 feet south of east-west halfmile road (aouth fence)(width of road 40.6 feet), and 100° (magnetic) from District 44 schoolhouse. Station is a U.S.C.& G.S.
and State Survey standard disk in concrete, projecting 2 inches
above ground. Elevation: 1,346.546 feet.

Dickinson County

From U.S.C.& G.S. triangulation station WILMER (described elsewhere in this publication) to U.S.C.& G.S. triangulation station faylog,

Me coordinates have been established for stations in this line.

Al-11-3E (Kans. Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--About 2 miles north and 1.2 miles west (highway) of Upland, in
SE\$BEQ sec. 1, T.11 5., R.3 E., Sherman Township, on the property
of Clara Tomi, 1,021.6 feet south and 280.2 feet west of Miler,
1,010.5 feet west of north-south section line, and 3.25 feet west
of eighth telephone pole west of section line. Station is a
U.B.C.& G.B. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,531 feet.

A7-11-4E (Kana.Geod.S.)(Dickinson County, L.E.Conred, 1934).
--About 1.0 mile west and 1.75 miles north (highway) of Upland, in SW#NW\$ sec. 7, T.11 S., R.4 E., Fragmant Hill Township, on property of W.R.Cockson, about 162 feet west and 135 feet north of northwest corner of barn and in a prolongation of north side of barn, 75.4 feet west of west face of foundation of the Cockson house measured from point 24.7 feet south of northwest corner of house. Station is a U.S.C.& G.S. and State Survey standard disk

in concrete, projecting 2 inches above ground. Elevation: 1,310

Al2-11-3E (Kans. Geod. 8.) (Dickinson County, L.E. Conrad, 1934).
--About 1 mile west and 1.5 miles (highway) north of Kansas
Farmers Mutual Insurance Association building at Upland, in
NEISE2 sec. 12, T.12 S., R.3 E., Sherman Township, on property
of Lewis Frohart, 0.3 mile north of east-west section line, 91.5
feet west of north-south section-line fence, and 35.7 feet east
of lone hedge tree in east-west fence line. Station is a U.S.C.
& G.S. and State Survey standard disk in concrete, projecting 5
inches above ground. Elevation: 1,326 feet.

A18-11-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).--About 0.5 mile (highway) west of Upland, in SW25E2 sec. 18, T.11 S., R.4 E., Fragrant Hill Township, in Liberty Gemetery, between tot 26 (Grosby) and tot 27 (Reed), 18.8 feet north of east-west section-line fence, 65.4 feet east of north-south half-section line fence, and 1.5 feet south of marker at south-west corner of lot 27. Station is a U.S.C.& G.S. and State Survey atandard disk in concrete, flush with ground. Elevation: 1.256 feet. 1.256 feet

A19-11-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).-In Upland, near northeast corner of NEANE2 sec. 19, T.11 S., R.4 E., Fragrant Hill Township, on property of the Kansas Farmers Mutual Insurance Association, 18.4 feet east and 0.85 foot south of northeast corner of building, 16.6 feet north of sidewalk leading to main entrance, 2.2 feet west and 2.6 feet south of nearest point on curb property to the bench mark. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,260.695 feet.

A29-11-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).--About 1.7 miles (highway) south of Upland, in NW45W4 sec. 29, T.11 S., R.4 E., Fragrant Hill Township, on property of Adolf Gfeller, east of highway on a prominent knoll, 208.5 feet east and 140.4 feet south of southeast corner of Marvin Gfeller house in a line of prolongation of south side of house, 113 feet east of west section-line fence, 18.2 feet west and 3.8 feet south of southwest corner of granary and in a line of prolongation of the south side of granary. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,260.478 feet.

A32-11-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).--About 2.2 miles (highway) south of Upland, in NW4NW4 sec. 32, T.11 S., R.4 E., Fragrant Hill Township, on the Charles Gfeller property, about 366 feet east of north-south section-line fence, 55.2 feet north of east-west fence north of lane, and 47.9 feet west and 2.7 feet north of northwest corner of farmhouse, in a line of prolongation of north side of house. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,260.747 feet.

A6-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--About 4.2 miles (highway) north of Chapman, in SE4SE2 sec. 6, T.12 S., R.4 E., Noble Township, on property of W.H.Chamberlin, 1.229.7 feet north of east-west section line, at first rock outcrop north of Blue Line Road, 96.8 feet west of east property line fence, 33.3 feet north and 96.8 feet west of fourth highline pole north from corner. Station is a U.S.C.& G.S. and State Survey stendard disk in concrete, projecting 3 inches above ground. Elevation: 1,229.399 feet.

A7-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--About 3.5 miles (highway) north of Chapman, in NE 182 sec. 7, T.12 S., R.4 E., Noble Township, on the F.A.Holland property, 1,610.5 feet north of east-west section line, 50.5 feet south and 5.3 feet west of seventh high-line pole north of section line 40.3 feet east and 163.5 feet north of northeast corner of the Holland fermhouse, and 2.4 feet west of north-south fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,224,701 feet.

A20-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).--About 2.3 miles (highway) north of Chapman, in NW\u00e4NW\u00e4 sec. 20, T.12 S., R.4 E., Noble Township, on the William Lantz property, under first high-line tower east of north-south road, 150.25 feet south of centerline of east-west section line, 51.25 feet east of fence line, and 3.3 feet east of west leg of tower. Station is a U.S.C.& G.S. and State Survey.standard disk in concrete, projecting 1 inch above ground. Elevation: 1,114.680 feet.

A19-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--About 1.5 miles (highway) north of Chapman, at south end of
bridge over Chapman Creek, at about the south end of line between
sections 20 and 21, T.12 S., R.4 E., Noble Township, 1.8 feet
east of west side of concrete slab, and 0.95 foot south of concrete slab over bridge. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, 15 inches below ground. Elevation: 1,115.532 feet.

C31-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--In Chapman, in sec. 31, T.12 S., R.4 E., and in northwest corner of high school grounds. Station is a U.S.C.& G.S. and State
Survey standard disk in concrete. Elevation: 1,116.627 Feet.

B31-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--In Chapman, in NE4 sec. 31, T.12 S., R.4 E., Noble Township, near northwest corner of the Dickinson County Community High School grounds, 76.5 feet west and 63.8 feet north of northwest corner of shops building and in a line of prolengation of the north side of building, 100.7 feet east and 1.5 feet north of northesst corner of the Drenner house on North Logan Street and in a line of prolongation of the north side of boune, and 3.5 feet south of West Fifth Street sidewalk. Station is a U.S.C.& G.S.

and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,112.663 feet.

Ail-12-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
-In Chapman, in NEi sec. 31, 7.12 S., R.4 E., Noble Township, at parking area at school District 80, 69.9 feet north and 51.7 feet west of northwest corner of the Chapman State Bank and in a line of prolongation of the west side of bank, 44.4 feet south and 28.4 feet east of southeast corner of schoolhouse and in a line of prolongation of the east side of building, 13.3 feet north of West Fifth Street sidewalk, and 3.6 feet west of North Marshall Street curb. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 1 inch above ground. Elevation: 1,110.068 feet.

B6-13-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).
--About 1.0 mile (along main highway) south of Chapman, in NEINE2 sec. 6, T.13 S., R.4 E., Rinehart Township, on property of J.T. Cregan, on section line between sections 6 and 31, 49.3 feet south and 62.5 feet west of first telephone pole east of road and north of section line, and 10.3 feet west of north-south property-line fence. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. No elevation has been determined for this station.

A6-13-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).-About 1.5 miles (highway) south of Chapman, in NE2SE4 sec. 6,
T.13 S., R.4 E., Rinehart Township, on the J.T.Cregan property,
216.6 feet east and 39.3 feet south of southeast corner of farshouse and in a line of prolongation of south side of house, 147.3
feet west and 55.1 feet north of northwest corner of the Paul
Scanlan house and in a line of prolongation of north side of
house, 29.5 feet west of east section-line fence, and 1.3 feet
north of fence line. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, projecting 3 inches above ground. Elevation: 1,128.C91 feet.

A5-13-4E (Kans. Geod. S.) (Dickinson County, L.E. Conrad, 1934).

-About 2.55 miles (highway) south of Chapman, in NW1SW1 sec. 8, T.13 S., R.4 E., Rinehart Township, on the Mary and John O'Brien property, under telephone line, 249.5 paces south of half-section line, 25.8 feet south of fifth telephone pole south of half-section line, and 25.2 feet west of present fence line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,203.665 feet.

NOTE.--See end of this list.

NOTE. --See end of this list.

Al8-13-4E (Kans. Geod. S.) (Dickinson County, L.E. Conrad, 1934).

--About 2.95 miles (highway) south of Chapman, in NE4NE2 sec. 18,
T.13 S., R.4 E., Rinehart Township, on the Sam P. Harris property,
193.8 feet south of road intersection, 10 feet south and 49.4 feet
west of second pole south of section line. Station is a U.S.C.&
G.3. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,215.952 feet.

NOTE. -- See end of this list.

-About 4.6 miles (highway) south of Chapman, in NW2SW2 sec. 20,
T.13 S., R.4 E., Rinehart Township, on the G.C. Buher property,
611.5 feet south of half-section line, 0.9 foot east and 15.2
feet south of fourth telephone pole south of half-section line.
Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,265.680
feet.

A29-13-4E (Kans.Geod.S.)(Dickinson County, L.E.Conrad, 1934).

--About 5.0 miles south and 0.1 mile east (highway) of Chapman, in NWANW4 sec. 29, T.13 S., R.4 E., Rinehart Township, on the William Sigg property, 0.6 foot outside of present fence line, 647.25 feet east of centerline of road intersection, and 131.9 feet east and 56.1 feet south of third high-line pole east of line intersection. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,279.210

TT-47-M (U.S.G.S., 1926)(Dickinson County, Kans.Geod.S., 1934),.--About 5.8 miles south and 1 mile east of Chapman, and 936.5 feet north of TAYLOR. Station is a U.S.G.S. standard disk in concrete. Elevation: 1,315.602 feet.

TAYLOR (U.S.C.&.G.S.)(Dickinson County, F.D.Granger, 1889; 1922; Kans.Geod.S., 1934).—About 6 miles south and 1 mile east of Chapman, in NE4 sec. 32, T.13 S., R.4 E., on land owned (1922) by Clarence Taylor. The underground, station, and witness marks are described in notes 1 and 2, except that the marble post does not contain the standard bronze tablet. The underground mark is 4 feet below the surface, and the station and witness marks 1 foot below the surface. The following distances were measured: north hedge, 282.09 meters (925.0 feet); line of east hedge, 14.3 meters (47 feet); west face of stone coal house, 41.79 meters (137.1 feet); northeast corner of section 32, 639.14 meters (2096.9 feet). Elevation: 1,311.873 feet.

Plane coordinates: (N), x = 2,282,597.59 feet; y = 201,710.17 feet.

Geary and Dickinson Counties

From U.S.C.& G.S. triangulation station ROBBINS (described elsewhere in this publication) to Al9-11-4E (on WILMER to TAYLOR line).

No coordinates have been established for stations in this line.

B30-12-6E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).--About 4.7 miles southeast of Junction City Post Office building, in NW4NE4 sec. 30, T.12 S., R.6 E., Jefferson Township, on proper-ty of O.C.Stranss, about 1,000 feet west of north-south section-

line fence, 706.7 feet south of end-west another-line leave, Go feet north of mast-west fence line, and 1.5 test mast of porthesouth fence line. Station is a 1.5.0.8 9.5, and State Servey standard disk in concrete, projecting 2 inches above ground. Elevation: 1,327.376 feet.

B19-12-6E (Knns.Gerd.S.) (Geary County, L E. Conrad, 1944).--About N.5 miles southeast of dunction City Pest Office building in Smilwi sec. 19, 5.12 3., h.6 E., Jefferson Township, on property of N.6. Ward, on high rocky bird overlocking Smiky Bill River, about 800 feet west of north fence line, 500 feet south of rocky outrop, and 115 feet east of north-south fence line. Azimuth to peak of the N.6. Ward framikouse TMC. Station is a U.S.C.4 G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1.795.050 feet.

All-12-55 (Kans.Geod.S.)(Geary County, L.E.Conrad, 1934).-About 1.6 miles south of Junction City Post Office building, in
SEANWA sec. 13, T.12 S., R.5 E., Smoky Bill Township, on MisseuriKansao-Taxas Rallroad, about 1,600 feet north of railroad bridge,
46.1 feet east of east rail of railroad, l.7 feet inside of
right-of-way fence. Azimuth from station to Union Pacific Railroad tower 442, 150°; to Geary County Counthouse, 170°; and to
School District 18, 220°. Station is a U.S.C.& G.S. and State
Survey standard disk in concrete, 6 inches below ground. Elevation: 1,078.734 feet.

B13-12-5E (Kans.Geod.B.)(Geary County, L.E.Conrad, 1934).—About 1.4 miles south of Junction City Post Office building, in NEANN; scc. 14, T.12 S. R.5 E., by cross on end of rail set in ground between Missouri-Kansse-Texas Railroad and Union Pacific Railroad tracks, 476 feet cast of east rail of Union Pacific Railroad, 236 feet south of semaphore 1406, 15,8 feet west of west rail of Missouri-Kansse-Texas Railroad, 250° (magnetic) west of School District 18, and 355° (magnetic) from Union Pacific Railroad tower 442. Station is a railroad rail set in ground, projecting 12 inches above ground. Elevation: 1,076.526 feet.

A12-12-5E (Kans. Geod. S.) (Genry County, L.E. Conrad, 1934).-In Junction City, about 0.85 mile south of post office on Jefferson Street, in SW\$3% sec. 12. T.12 S., R.5 E., 19.65 feet cast
and 136.9 feet north of northwest corner of city hospital, 62.85
feet south of south curb of West Ash Street, and 6.1 feet west
of west curb of Jefferson Street. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, 7 inches under ground
(covered by a mater membole cover). Elevation: 1,111.591 feet.

B12-12-5E (Kans.Geod.S.)(Geary County, L.E.Conrad, 1914).-In Junction City, in NWANWA sec. 12, T.12 S., R.5 E.. Smoky Hill
Township, at northwest corner of city park, 96.95 leet south and
16 feet west of southwest corner of post office. 17.75 feet south
of south curb of West 6th Street, 10.05 feet east of east curb of
Jefferson Street. Station is a U.S.C.& G.S. and State Survey
standard disk in concrete, projecting 5 inches above ground.
Elevation: 1,106.569 feet.

Al-12-5E (Kana.Geod.S.)(Geary County, L.E.Conrad, 1934).-In Junction City, about 0.6 mile north on Jefferson Street from
post office, in lot 6, 5W\lambda\overline{N} sec. 1, T.12 S., R.5 E., Smoky
Hill Township, on Washington Public School grounds, 97.7 feet
west and 46.7 feet south of southwest corner of building, 25 feet
morth of north ourb of West 15th Street, and 22.4 feet east of
east ourb of Jefferson Street. Station is a U.S.C.& G.S. and
State Survey standard disk in concrete, 5 inches below ground,
(covered by a meter manhole cover). Elevation: 1,056.060 feet.

AV4-11-5E (Kans.Geod.S.)(Genry County, L.E.Courad, 1934),--About 3 miles northwest of Junction City Post Office building, in lot 12, sec. 14, T.11 S., R.5 E., Smoky Hill Township, on south elds of Alida Road, near gateway of the J.M. Nolan property, sbout 540 feet along track southeast of Union Pacific Railroad milepost V, 89.5 feet S.26°E. (magnetic) of centerline of track, about 163 feet southeast of centerline of drainage ditch, and 10 feet N.35°M. (magnetic) of lone evergreen tree, and 2.7 feet N.26°E. (magnetic) of property line feace east of road. Station is a U.S.C.& O.B. end State Survey standard disk in concrete, 3 inches below ground. Elevation: 1.075.044 feet.

A28-11-5E (Kens. Geod. S.) (Geary County, L.E. Conrad, [131])...
About 3.55 miles northwest of Junction City, along Alvia Boad, in NESSES and. 28, 7.13 S., R.5 E., Smoky Hill Township, on ter of send dune south of read right-of-way, about 507 feet along Union Pacific Hallroad tracks northwest from west odge of bridge marked "3.35," thence 88.5 feet S.30°M., of centerline of track, at

month size of Alico Ress. 432.2 feet northwest along fence from east of eac. 02, 051.5 feet northwest along fence from lose elm, 68.5 feet sunthwest of north fence, and 33 feet N.30°E. (magnetic) of fence (mensured at right angle to fence), 8.30°W. (magnetic) of north fence. Stables is a 9.8.6.8 G.S. and State Survey standard disk in concrete. Fligh with ground. Elevation: 1,084.492 feet.

APO-11-5E (Rane.Good.S.) (Geary County, L.E.Conrad, 1934).-About 4.7 miles northwest of Junction City, in SEASEA sec. 20,
T.H.S., R.5. E., on north side of Alida Road right-of-way, northcast of steep high hill, 58.4 feet N.12°E. of south road fence,
th.: feet S.12°M, of conterline of Union Facific Railroad track,
about A fret northwest of Intersection of tracks with section line,
and L.F. feet S.12°M, of north road fence. Station is a U.S.C.&
G.B. and State Survey standard disk in concrete, projecting 1 inch
above ground. Elevation: 1,082.583 feet.

B20-11.55 (Kana Good S.) (Geary County, L.E. Conrad, 1934)...
About 5.3 wiles morthwest of Junction City Fost Office, along Alide Road, in NV3982 are. 20, 7.11 S., R.5 E., on road right-of-way, near concrete bridge, about 126 feet east of north-south section line between sections 19 and 20, west of bridge and where section line intersects highway at centerline of bridge 2.7 feet east and 0.7 foot south of southwest corner, and 1.5 feet east and 0.7 foot south of southwest corner, and 1.5 feet seat and 0.5 C.6 0.5 and State Survey standard diek in concrete, 1 inch telow ground. Elevation: 1,093.676 feet.

A19-11-5E (Kans. Good. S.) (Geary County, L.E. Conrad, 1934).—About 6.3 miles cortiwest of Junction City Post Office, along Alida Road, on road right-of-way, in W#25E2 sec. 19, T.11 S., E., adjoining the John Spurlock property, 384.4 feet southeast of intersection of highway and north-south half-section line, and 1.4 rest north of south road fence line (road is 56.4 feet wide). Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,130.420 feet.

A24-11-4E (Kana.Good.S.)(Geary County, L.E.Conrad, 1934).-About 7.55 miles northwest of Junction City Post Office, 1 mile
south and east of Alida Post Office, along Alida Road, in NEANW2
sec. 24, 7.11 S., R.4 E., on property of M.J.Breen, on a pronounced hill in northesst corner of cultivated field, about 2,055
feet east and 526 feet south of northwest corner of sec. 24, about
1,095 feet nouthness along highway at intersection of Upland and
Alida Highways, 218.5 feet south of centerline of Alida Highway,
72 paces north of east-west wire fence, and 3.2 feet south of corner post. Station is a U.S.C.& G.S. and State Survey standard disk
in concrete, projecting 3 inches above ground. Elevation: 1,169.969
feet.

A14-11-4E (Kans. Geod. S.) (Geary County, L.E. Conrad, 1934).-About 8.1 miles northwest of Junction City Post Office, along
Alida and Upland Roads, 3.75 miles east of Upland, Diokinson
County, in SE&TSE, sec. 14, 7.11 S., R.4 E., on property of W.R.
Roice, on high pasture land, 424 paces west of northwest section
line, 64.2 feet east of hedge fence at north-south quarter-section
line, (width of road 60.2 feet), and 2.5 feet north of north road
fence. Station is a U.S.C.& G.S. and State Survey standard disk
in concrete, projecting 2 inches above ground. Elevation:
1,198.066 feet.

A15-11-4E (Kans. Geod. S.) (Dickinson County, L.E. Conrad, 1934).--About 9.72 miles northwest of Junction City Post Office, Geary County, 2.15 miles east of Upland, in Swissi of eac. 15, T.11 S., R.S. E., on the Davis G. Duncan property, 900 feet east of centerline of north-south section-line road, 75 feet north of north fence of Upland Hoad (width of road 49.5 feet), and at point where road goes over high hill near fence line of tillable field. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, projecting 3 inches above ground. Elevation: 1,223.110 feet.

Al6-11-%E (Kana.Geod.S.)(Dickinson County, L.E.Conrad, 193%).
--About 10.3 miles northwest of Junction City Post Office, Geary
County, L.6 miles east of Upland, along Upland Road, in SW48E4
esc. 16, T.11 S., R.M. E., on the E.A. Schmutz property, 4.35 feet
north of north fence of Upland Road (Width of road 45,2 feet),
1.15 feet went of west fence of the Schmutz north-south private
road (Width of private road if feet), and 240 steps (36-inch steps)
east of north-south helf-section fence line. Station is a U.S.C.
& G.S. and State Survey standard disk in concrete, projecting 1
inch above ground. Elevation: 1,282.756 feet.
NOTE: The stimuth to Schmutz' windmill, 170° (magnetic); to
Duncan's windmill, 333° (magnetic).

A17-11-4E (Kana, Gred. S.) (Dickinson County, L.E. Conrad, 1934).
--About 11. M5 miles (along Alide and Upland Roade) northwest of Junction City Post Office, Geery County, C.M5 mile east of Upland, in SE\$8Mt sec. 17, T.11 S., R.4 E., on southwest corner of District 41 school grounds, 54 paces west of half-section line, 40 feet north of canterline of Upland Road, 11 feet west and 2.25 feet north of centerline of well pump, and 3.15 feet east of west school property line. Station is a U.S.C.& G.S. and State Survey standard disk in concrete, flush with ground. Elevation: 1,262.140 feet.

Additions and Corrections

A15-11-7E (Kane.Geod.S.). -- Destroyed prior to January 1953.

ARR-12-10E (Kans.Geod.S.) .-- Destroyed prior to October 1950.

A8-13-4E RESET (Kans, Geod. S.). -- 2.55 miles (highway) south of Chapman, Rhinehart Township, 3405.1 feet south and 50 feet east of the northwest corner of section 8, T 13 S, R 4 E. A State Survey tandard disk, stamped "A8 13 4E RESET 1946" and set in the top of a concrete post. Elevation: 1,201.502 feet.

NOTE. -- This bench mark was established and its elevation determined by engineers of the State Highway Commission in the summer of 1948.

Al8-13-4E HESET (Kans.Geod.S.).--2.35 miles (highway) south of Chapman, Rhinchart Township, 109.1 feet south and 35 feet east of the northwest corner of section 17, T 13 S, R 4 E. A State Survey standerd disk, stamped "Al8 13 4E RESET 1948" and set in the top of a concrete post. Elevation: 1,215.004 feet.

NOTE.--This bench mark was established and its elevation determined by engineers of the State Highway Commission in the summet of 1948.