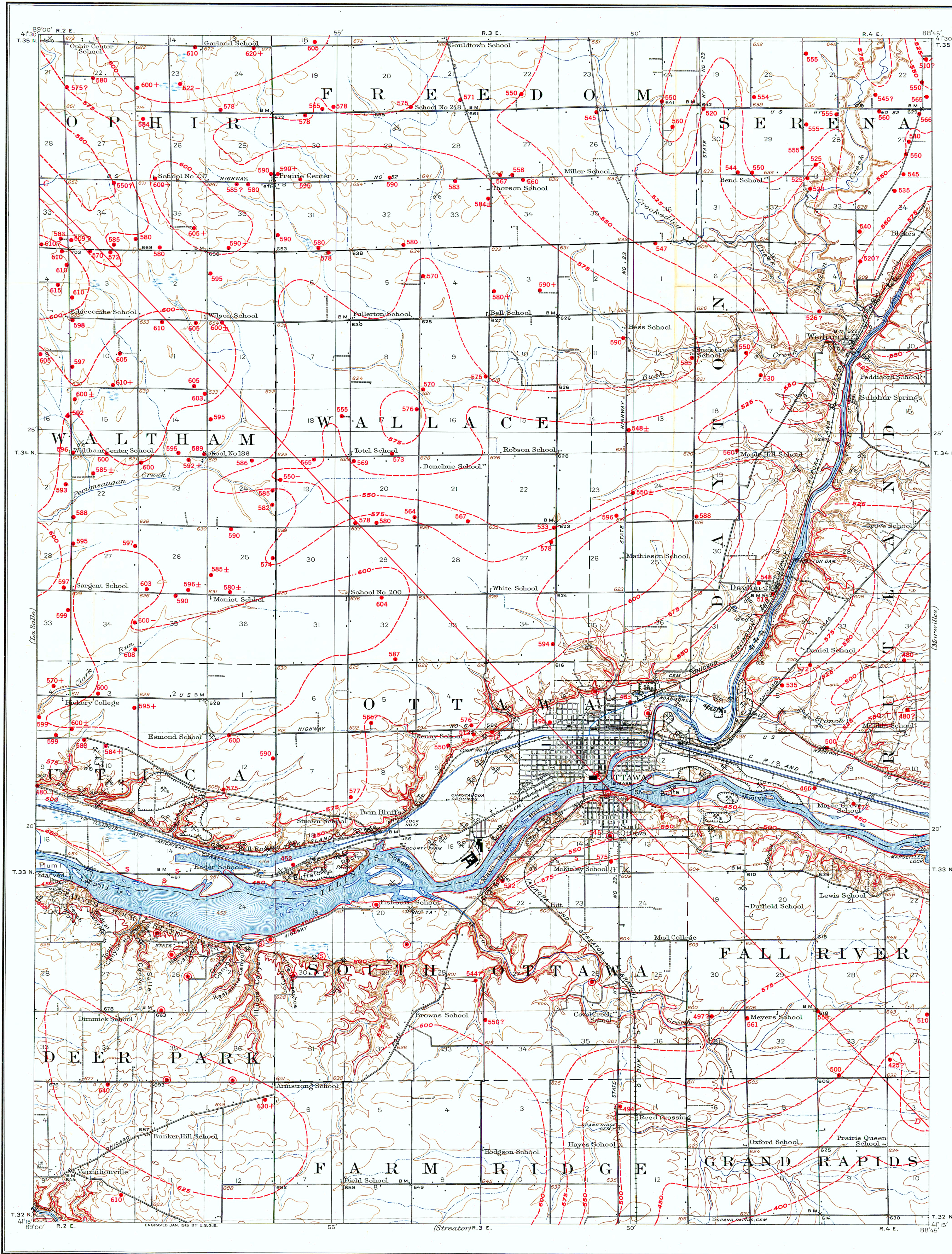




- LEGEND
- Coal mine
 - Strip-coal mine
 - Coal mine, idle or abandoned
 - Coal-mine tippie (shown only when not at mine)
 - Coal No. 2 mined out
 - Silicia-sand pit, operating
 - Silicia-sand pit, idle or abandoned
 - Clay or shale pit
 - Clay or shale pit, idle or abandoned
 - Sand and gravel pit
 - Sand and gravel pit with washing plant
 - Salty-water well
 - Spring
 - Salty-water spring
 - Water well and elevation of bedrock surface
 - Contours showing elevation of the bedrock surface - solid line at or near outcrops, dashed line where the bedrock is covered with surficial deposits
 - C-D Line of topographic profile, figure 3

Topographic base surveyed in cooperation with the U. S. Geological Survey, 1916.

BEDROCK TOPOGRAPHY AND MINERAL INDUSTRIAL DATA
OF THE OTTAWA QUADRANGLE

Geologically surveyed in 1934-1941

BY
H. B. WILLMAN AND W. C. KRUMBEIN

