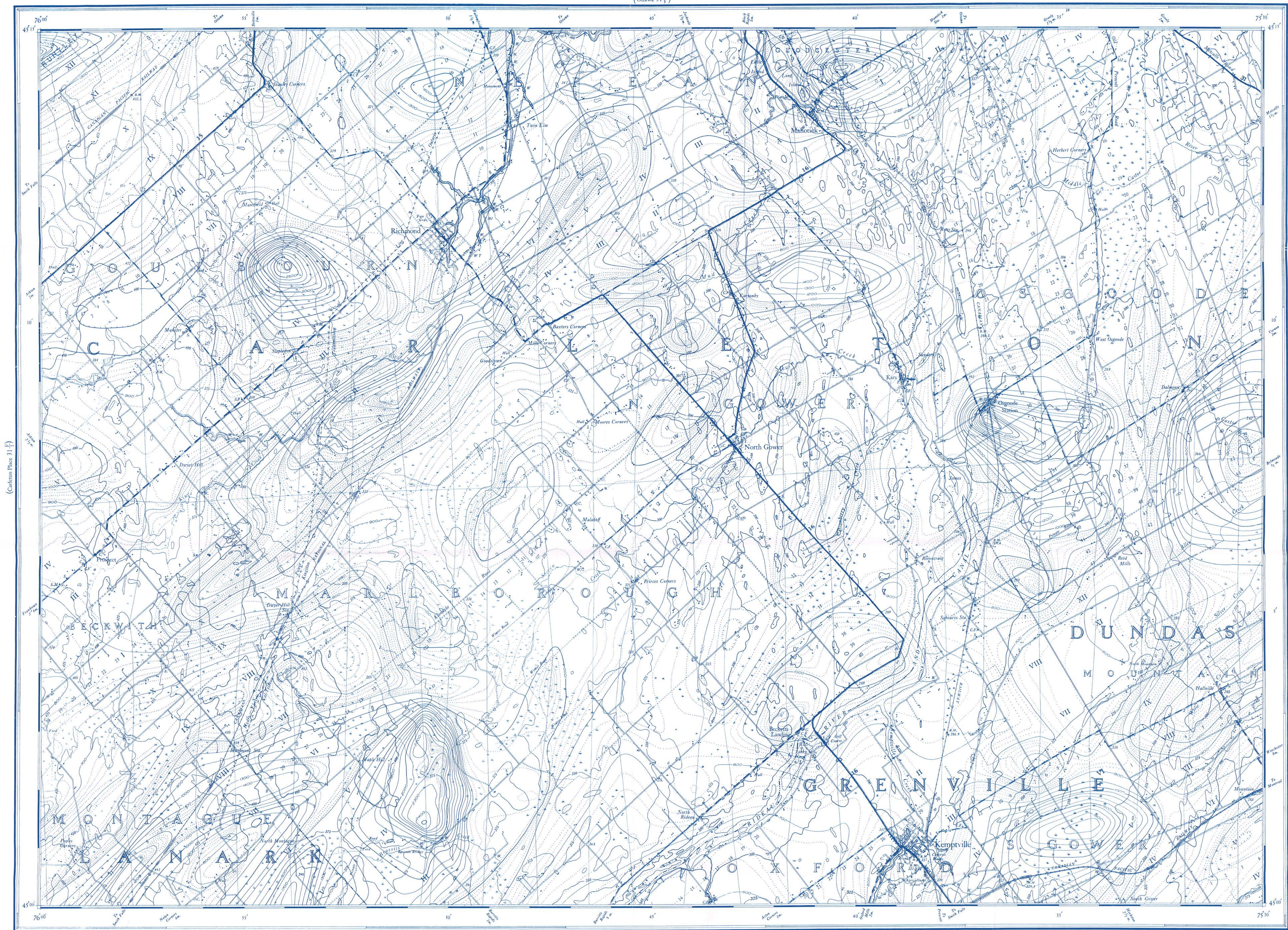


G
3401
-C93
1948
G4
amv 50



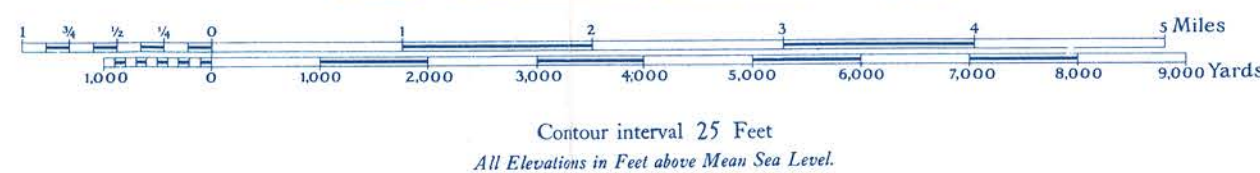
(Cartoon Plate 31^G/₁)

(Wachusca 31^G/₅)

(Merrickville 31^G/₃)

KEMPTVILLE ONTARIO

Scale: One Inch to One Mile = 1/63,360



Surveyed and Reproduced by the Geographical Section, General Staff,
DEPARTMENT OF NATIONAL DEFENCE.
Original Survey 1906
Revised 1924
Reprinted 1940
Magnetic Declination 13° 05' W. at North Gower, 1936.

REFERENCE

| | | | |
|------------------------------------|----|--|---|
| Main Highway (twelve) | — | Boundaries Provincial | — |
| Secondary (fourteen) | — | County | — |
| Other Roads | — | Township | — |
| Path | — | Electric Power Lines (On Steel Towers) | — |
| Highway Route Number | 15 | On Wood Poles | — |
| Railways (Double Track) | — | Canals | — |
| Single Track | — | Triangulation Station | — |
| Along Road | — | Cemetery | — |
| Post Office | — | Telephone Exchange | — |
| Telegraph or Telephone Trunk Route | — | | |
| Telegraph Office | — | | |
| Survey Monument | — | | |

REFERENCE

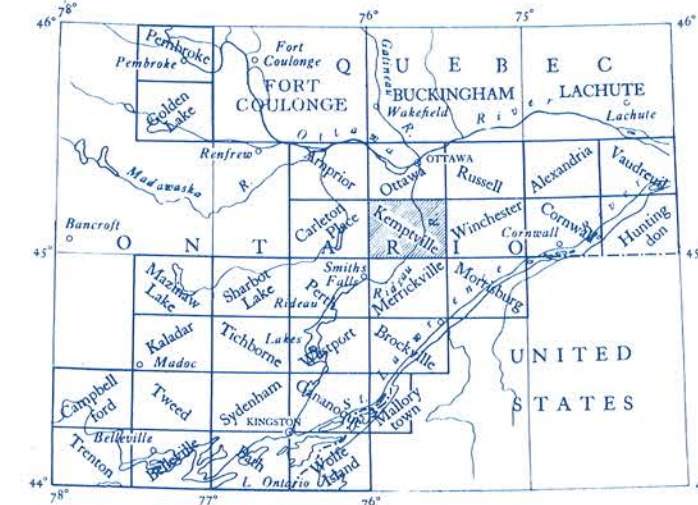
| | | | | | |
|-----------------------|---|---------------------|---|-----------------------------|---|
| House | — | Church with Spire | — | Altitude of centre of Spire | — |
| Barn | — | Tower | — | Bench Marks | — |
| Swamp | — | S.M. without either | — | Elevation | — |
| Mill | — | G.M. School | — | Contours | — |
| Other Mill or Factory | — | C.F. Marsh | — | Depression | — |
| Quarry | — | Quarry | — | Cliff | — |
| Sand or Gravel Pit | — | Swamp | — | Light House | — |
| Woods, Deciduous | — | Field | — | Submarine | — |
| Coniferous | — | Orchard | — | Canal | — |

Magnetic survey November 1947, and March 1948, by Geophysics Section, Geological Survey of Canada; Mines, Forests and Scientific Services Branch, Department of Mines and Resources, in collaboration with the Royal Canadian Air Force. Flights made through the courtesy of the Flight Research Section, National Research Council, Annapolis, Ontario.

Magnetic contour intervals (total field):
500 gammas
100 gammas
20 gammas
Magnetic depression contour
Flight line
Flight altitude: 1,000 feet above ground level

No correction has been made for regional variation; this increases at the rate of 3.5 gammas per mile from east to west and 3.0 gammas per mile from south to north.
The absolute magnetic intensity at the base station (latitude, 45° 25'; longitude, 76° 22') on August 26-27, 1947, was 58,362 gammas; for convenience in the present magnetic compilation, the magnetic datum has been taken at this station as 1,200 gammas.

The magnetic data superimposed on this topographic map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below, the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentine, which have a relatively high iron content; but in special instances may be due, or partly due, to concentrations of magnetic ore minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced by the geologist into, or across, areas of few or no outcrops. In many instances, however, no present interpretation of particular anomalies may be possible.



NOTE: On the above index the sheets published are shown in red.
Copies of these maps may be obtained from the Surveyor General,
Department of the Interior, Ottawa. Price 25 cents.

Aeromagnetic Map # 96