

## HUNDRED MILES OF HIGHWAYS

To Be Built This Year by the Ontario Government—Tenders Will Soon Be Called for Ottawa-Prescott Highway—Roads vs. Radials

**T**ENDERS for the construction of the Ottawa-Prescott road, 56 miles in length, will likely be called for within a few days by the Ontario government, and, according to an announcement by Hon. Finlay Macdiarmid, Minister of Public Works and Highways, tenders will be called at an early date for another 40 miles, probably somewhere between Hamilton and Niagara Falls.

Alternative tenders will be considered for all types of road; the Department of Highways has not made any definite plans as to the type of road which it will construct. W. A. McLean is deputy minister of the Ontario Highways Department, and George Hogarth is chief engineer.

### Roads Will Have Precedence

In an address last week at the annual meeting of the Hamilton Automobile Club, Mr. Macdiarmid declared that the building of public highways in Ontario is to have precedence over all other forms of provincial government expenditure which entail the outlay of large sums of the public funds. He indicated that the roadways are to have preference over the building of hydro-electric radials.

"In making his announcement," says a Toronto daily paper in reporting the meeting, "the minister of public works made it plain that he had the full endorsement of the premier and other members of the cabinet in his attitude, and that he was speaking with the full authority of the Ontario government. Mr. Macdiarmid added that he had no quarrel with any form of transportation other than roadways, but explained that, in his opinion and in the opinion of the government as a whole, it has been decided that the public highway must come first. Added to this was his assurance that the government purposes to go ahead with the work in an energetic manner this season."

### Construction Soon to Start

"Following the announcement made by the minister at the annual meeting of the Ontario Motor League in Toronto last week that tenders are to be called for shortly for the construction of 100 miles of the provincial highway, Mr. Macdiarmid stated that these tenders will include the building of the Ottawa-Prescott section, this being a stretch of 56 miles. Tenders for this section, he stated, will be asked for at once. This leaves a balance of 44 miles to be constructed, according to the minister's earlier announcement, and much of this space will be taken up in the betterment of the old stone road between Hamilton and Queenston, which has been badly torn up by heavy traffic during the war."

"While the government does not propose just now to go ahead with the building of the full length of this stretch of 40 miles, Mr. Macdiarmid stated that they will rebuild the section which stands in the greatest need of repair, and that it is hoped to complete these sections this season. This will leave a few miles of the 100 to be constructed on other portions of the provincial highway."

## FREDERICTON WANTS PAVING ENGINEER

City Council Decides to Spend \$200,000 Within the Next Five Years—Depends Largely Upon Engineer as to How Quickly Work Will Proceed

**A**T a special meeting of the city council of Fredericton, N.B., held January 28th, a paving policy was adopted which will mean an outlay of about \$200,000 during the next five years, but before commencing this work, it is the city's intention to employ a roadways engineer. In a letter to *The Canadian Engineer*, G. R. Perkins, city clerk and treasurer, says that a great deal will depend upon the engineer who is appointed as to how quickly the work proceeds.

## MILLIONS FOR PUBLIC WORKS

Hon. J. A. Calder, Minister of Immigration, Says that Federal Government has Big Program—Ontario Provincial Secretary Makes Announcement

**M**ILLIONS of dollars will be spent by the Dominion Government on the improvement of highways and in ship-building, construction of provincial highways and other public works, according to a statement by Hon. J. A. Calder, Minister of Immigration and Colonization in the Dominion Government, in a speech last Thursday before the Canadian Club of London, Ont.

"An ounce of prevention now is worth a pound of cure," said Mr. Calder. "A little prevention now may save a lot of trouble three or more months from now." He urged all employers to make good their promises to men who went overseas, that their positions would be waiting for them when they came back.

On the same day, at a civic banquet at Brantford, Ont., Hon. W. D. McPherson, Ontario Provincial Secretary, declared that the Ontario Government is ready to carry out a big program of public works in order to bridge over any period of unemployment.

## GEODETIC SURVEY OF CANADA

Annual Report for Year Ending March 31st, 1918, Now Being Distributed—Describes Triangulation, Precise Levelling, Topography and Other Work

**O**F considerable interest to all civil engineers is the annual report of the Geodetic Survey of Canada for the year ending March 31st, 1918, which has just been received from the King's Printer, Ottawa.

Just a few months ago the Geodetic Survey began issuing its own reports as a separate department and the annual report now being distributed fully justifies the innovation.

### Review of Department's Functions

Noel Ogilvie, superintendent of the Geodetic Survey describes the functions of his department, its organization, buildings and equipment, and its operations and the extent of survey activities. The activities included triangulation, precise levelling and topography, the work in each field being reviewed and well illustrated with photographs of the equipment used.

Under triangulation, Mr. Ogilvie discusses astronomic work, base lines, reconnaissance and observing. A list is given of the information which was supplied during the year by his department. A brief chapter explains the adoption of the North American datum.

The work of the geodesist's office is summarized by W. M. Tobey, assistant superintendent and geodesist. W. H. MacTavish, geodetic engineer, reports on the progress of triangulation on the British Columbia coast, while L. O. Brown, geodetic engineer, reports on similar work in the country west of Port Arthur. J. L. Rannie, supervisor of triangulation and topography, describes the progress of primary triangulation in Ontario and Quebec.

### Reconnaissance

A. J. Brabazon, geodetic engineer, reports on reconnaissance and observing in New Brunswick, and H. P. Moulton tells about field work in southern New Brunswick and Nova Scotia.

C. A. Biggar, assistant superintendent, presents a full report on base lines; F. B. Reid, supervisor of levelling, on precise levelling; and F. A. MacDiarmid, geodetic astronomer, on astronomic work and tape standardization.

The booklet, which is being distributed gratuitously by the Department of the Interior, includes 64 pages and cover, 6½ x 9¼ ins., and two large maps. It is well printed on coated paper and attractively illustrated.