



GATE LODGE AT "HALTONBROOK," OAKVILLE, ONT., FOR CAPT. ELLSWORTH FLAVELLE. WICKSON & GREGG, ARCHITECTS.

effect of such additions on the durability of concrete and the effect of the addition of this salt on the liability to corrosion of iron or steel embedded in mortar or concrete. The results to date indicate that in concrete at the age of two or three days the addition of calcium chloride up to 10 per cent. by weight of water to the mixing water results in an increase of strength over similar concrete gauged with plain water, of from 30 to 100 per cent., the best results being obtained when the gauging water contains from 4 to 6 per cent. of calcium chloride.

Compressive strength tests of concretes gauged with water containing up to 10 per cent. of calcium chloride, at the age of one year, give no indication that the addition of this salt has had deleterious effect on the durability of the concrete.

Unburnt Bricks for Building

Germany's state of economic distress affects that country in many ways. One of her present predicaments is a lack of coal, together with disorganized transport facilities. Because of this the brick-kilns cannot reckon on a coal supply for some time, and this is causing great difficulties in the provision of new dwelling-houses. In order to restart the building trade, and leave no means untried of furthering housing, the

State Commissioner for Housing lately invited a number of experts of the clay industry, and representatives of the brick-kiln trade, to a conference, to consider the suitability of unburnt clay bricks as building material. It was the general opinion of the experts that, provided suitable kinds of clay were used, unburnt bricks were capable of resisting the weather, and were, from a technical and constructive point of view, quite unobjectionable material for small houses in rural districts. It is recommended that the necessary plant be erected in the neighborhood of building sites where supplies of suitable clay are available, in order to prepare unburnt clay bricks, which, after four to six weeks' drying in the open air, are ready for building purposes.

Resumes Professional Practice

Major H. E. Gates, who has been with His Majesty's Canadian forces since the outbreak of the war, has been relieved from active service duties and has again resumed architectural practice at Halifax, N.S.

Gilbert J. P. Jacques has re-opened his office for architectural practice in the Medbury Block, Windsor, Ontario, and desires catalogues and samples from manufacturers.