Designs for electrical plant to control the concrete-mixing machines at Maraetai and the Cobb have been prepared. Designs have also been prepared for the reception, generation, and distribution of electric power for the hydro-electric project at Roxburgh.

Visual aids in the form of film strips and sound films for the training of apprentices and welders have been made, and a safety campaign involving the use of such aids and

lectures is being organized.

Other Departments have been advised regarding proposals to purchase and install plant and equipment, including special electrical installations, both in New Zealand and in the Pacific.

DESIGN OFFICE

During the year the Chief Designing Engineer's office dealt with a large variety of works calling for special attention, from bridges and hangers to a pontoon for raising flying-boot moorings (in the Chatham Islands) and run-off and river-gauging equipment

for the Soil Conservation and Rivers Control Council.

Sewage-treatment and water-supply plants have been designed for the new mental hospitals at Lake Alice and Cherry Farm. An 1,100 ft. flume and 1,600 ft. of channel were designed to carry effluent from the Foxton flax-mill; drawings have been prepared for the steel form-work for the concreting of the Rimutaka tunnel; and preliminary designs have been taken out for a new marine-hulls building for the R.N.Z.A.F. at Lauthala Bay, Fiji.

Hydraulic-design tables have been compiled, printed, and issued to engineers and draughtsmen. The printing of structural-design tables and charts is almost complete. The preparation of plans and specification for the construction of the pipe-line

for a section of the Wellington water-supply scheme has been completed.

Draughting examinations, both for the Department and for the Public Service Commission, have been conducted by the Design Office. This included the organizing, setting, and marking of papers in all technical subjects.

F. LANGBEIN, M.Inst.C.E.,

Engineer-in-Chief.