

ELECTRICITY DEPARTMENT'S NEW BUILDING

CRIB BLOCKS

FOR BANK PROTECTION

At Two-thirds Approximate Cost of Ordinary Concrete Walls. Easy to Erect. Neat in Appearance.

THE CRIBBING BLOCKS for the New Borough Building were manufactured by—

HUME PIPE CO.

RIMU STREET. 'PHONE 13815.

THE PAINTING WORK

throughout the Borough Council's New Premises

Was Another Big Job entrusted to

TOM SARGESON PEACE AVENUE MOTUROA

WHO ENJOYS A REPUTATION FOR THOROUGH WORKMANSHIP AT ALL TIMES.

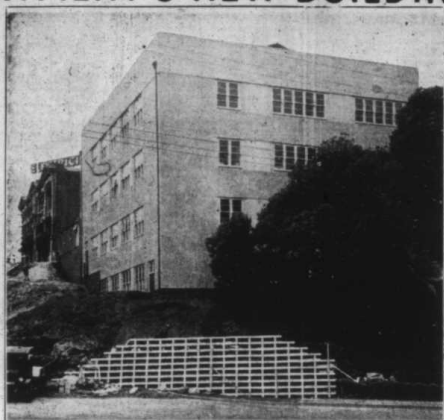
THE PLASTERING WORK

ON THE NEW BOROUGH BUILDING WAS EXECUTED EXCLUSIVELY BY

H. P. COLEMAN

73 MARTIN SQUARE, WELLINGTON.

We undertake and specialise in all kinds of Plastering, Fibrous and Solid, in any part of New Zealand. ESTIMATES GLADLY GIVEN



THIS BUILDING WAS DESIGNED BY

GRIFFITHS & SYME

B. Arch., A.R.I.B.A., F.A.N.Z.I.A.

CHARTERED & REGISTERED ARCHITECTS, STRUCTURAL ENGINEERS,

KING'S BUILDING

NEW PLYMOUTH

F. D. McIntyre LTD. PLUMBERS

South Road, New Plymouth.

Contractors for all Plumbing Requisites for the New Borough Council Building.

'Phone 1352, N.P.

ROEBUCK'S

were the

CONTRACTORS

for the New

Borough Building

Specialists in

Steel & Concrete Work

Bricklaying

Plastering

Licensed Draining

PHONE 1310

C. E. & N. C. ROEBUCK

Devon Street, East - New Plymouth

NEW MUNICIPAL BUILDING

ASSET TO NEW PLYMOUTH

The new building was erected near to the existing Municipal Buildings for the Electricity Department, and faces Leach Street and Carrington Road. The structural work was carried out in reinforced concrete, designed to carry heavy loads and to resist earthquakes. There are four floors, and although no lift is incorporated at present, the stairways have been designed so that the going is particularly easy. Adequate light and ventilation are secured by special slits and tilting angles. The two stairs to each floor are in continuation, and when open provide ventilation at top, bottom and centre. It is worthy of note that the opening hardware was manufactured locally.

Full advantage has been taken of the slope of the site to provide the unusual feature of direct access from ground level to three of the four floors. Heavy equipment may thus be unloaded direct from lorries and the necessity for a lift eliminated.

The two lower floors will be utilized as stores for heavy equipment, and range overhead. The third floor will be occupied as the general stores and workshop, and the fourth will be utilized for meters and testing. A pleasant effect has been given the ceiling of this floor by the use of coarse fibrous board, which minimizes condensation on the underside of the iron roof, and provides a more agreeable working temperature for the staff.

As the building is in the store and workshop class, no special treatment of the masonry was justified, and the architects have wisely made simplicity the keynote of the design. Although it may have no special reason, there is every reason why such a building should present a pleasing appearance, and this has been amply obtained by a careful study of the proportion of window to wall space. The effect is further improved by the introduction of contrasting tones and harmonies with the attractive setting provided by the surrounding greenery. The ground floor space is well expressed by the horizontal grouping of the windows, and sufficient vertical elements have been introduced to provide contrast. The heads to Carrington Road at present unshaded, but when provided with sun louvers, the window treatment will be continued, and the completed building will present a balanced and unified whole.

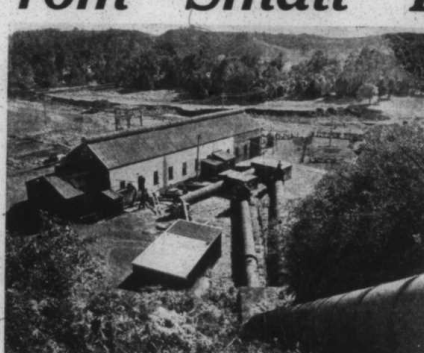
Altogether, from the viewpoints of both good construction and design, the building is an asset to the town.

The construction for the building was Messrs. C. E. and N. C. Roebuck, the architects Messrs. Griffiths & Syme, while the plumbing was carried out by Messrs. F. D. McIntyre Ltd. The plastering was executed by the firm of H. P. Coleman, Wellington.

HUME PIPE CO.

Using cribbing blocks manufactured by the Hume Pipe Co., the New Plymouth Borough Electricity Department is constructing concrete retaining walls to provide three vehicle approaches to its new building at the western end of Leach Street. As may be seen by the illustration the grid is formed of a series of blocks held together by galvanized steel wires and held at its ends by concrete four against the filling. The blocks extended four feet into the bank and filling was placed through each layer. Thus the "open work" wall had the advantage of great stability as well as resistance. The wall is simple to construct and its cost is less than that of a solid reinforced concrete wall and it can be built with unskilled labour. One great advantage so far as appearance goes is that the grid can be covered with crepe paper without in any way interfering with its efficiency.

From Small Beginnings



An early view of the Borough Power Station, Mangere.

From small beginnings the New Plymouth Hydro-Electric Scheme has become perhaps the most useful servant of New Plymouth and the surrounding district.

The power it supplies for business, factory, farm and domestic use enables the work of those it serves to be carried on efficiently, economically, continuously - truly a wonderful asset to a community.

USE ELECTRICITY To Its Maximum In Your Daily Life!

There is only One way to Cook to get Best Results, and that is to Cook with an **ELECTRIC RANGE**

An Electric Range not only cooks better meals and saves more economically and hygienically, but it takes the hard work out of the kitchen, and makes way for more hours of leisure.

Today's Model Range is a revelation. It is just as easy to buy as it is to cook with.

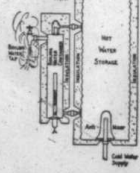


ELECTRICAL APPLIANCES MAKE HOUSEKEEPING EASY.

A Washing Machine, a Vacuum Cleaner, eliminates the drudgery in housework; an Electric Iron, a Toaster, a Kettle or Hot-water Jug, all have their respective places in to-day's modern home.

A Hot Water System

is necessary in every home. The installation that is small compared to the wonderful service it provides—not only hot water for ordinary use, but ever ready boiling water in the special boiling compartment for making tea, etc.



BOILING WATER FOR THE MILKING SHED!

Make your milking shed efficient by using electricity to the utmost—a Motor for your plant and for your separator.

Every shed should also be equipped with an Electric Shed Heater. These provide the hot water you need just when you want it.

Guarantee ample water in your troughs by installing an Electric Water Pump—switched on and off automatically as the water level changes.

ELECTRICITY DEPT.

LIARDET STREET

'Phone 1321

NEW PLYMOUTH

ELECTRICITY SUPPLY

GROWTH OF UNDERTAKING

New Plymouth was one of the first boroughs in New Zealand to make provision for the supply of cheap electrical power. As early as 1906 the first units in the power station at Lower Mangere were in operation supplying energy to the town's street lighting system, and to consumers for light, heat and power, and from that time onward the scheme has progressed steadily. During the first year 126 consumers were supplied, and by 1912 the number had increased to 306, or an average of about 200 per cent. per year.

At March 31, 1939, the capital expenditure had increased to £78,000, number of consumers connected to 2107, number of street light connections to 325, maximum load recorded to 350 k.w.

With the full development of the scheme in sight, and the demand for energy increasing, the council was faced with the necessity of providing more power to meet the demand, and approved the scheme submitted by Mr. Blair Mason, which provided for an intake about 11 miles further up the Waikarekare River, also tunnels, large storage area, freeways, pipelines, etc., the whole of which when completed was to develop up to 3000 horse-power. Work was well in hand, and a partial scheme without storage and capable of developing up to 2000 horse-power was completed and placed in commission in August 1934.

With the continued steady growth of the system, the shortage of storage as the hydro results had become a matter of grave concern, and after many delays work was commenced on the construction of the Mangamoa Dam. This work was completed in February, 1937, creating Lake Mangamoa, and providing storage over an area of 12 acres, which with the surrounding 17 acres in plantation makes Lake Mangamoa one of the show spots of the district.

Arrangements were also made for a supplementary supply from the Public Works Department up to 1000 k.w. as from December, 1931.

In the Traction Sub station the entry inefficient motor generators have been replaced with Mercury Rectifiers which operate.

With the larger development of the system, greater alterations and workshop accommodation was necessary and it was decided to proceed with the erection of the large four-story building, which owing to the natural formation of the site, makes three storeys in three floors of the building.

For the year ending March 31, 1940, 200 new consumers were connected to the system, also 232, including 60 fire alarm units, installed, 400 water heaters and 382 motors, making a total of 2902 consumers, 1262 200 water heaters, also a total connected load of 21,200 k.w. and a recorded maximum load of 8000 k.w.

It has been proved conclusively that electric power is the most economical and practically every new dwelling, shop, factory, etc., is equipped with wonderful simplicity and cleanliness have made all other methods obsolete. The introduction of electric power into the country districts has been a great boon to all concerned. Farm life is no longer drudgery when by means of this handy power motor may be milled, wood saws water pumped or heated, and the milk separated, and with the council's motor maintenance scheme, all motors are kept in good order and ready to do their work without troublesome interruptions for the small man of the per month.

New Plymouth has done to have one of the cheapest domestic rates of any of the small supply authorities, with an all-in-all tariff, and the fuel or high rate number of units depending on the grading of 4d per unit and the whole of the balance except 4d water rate heating at 1d per unit only.