



LAYOUT OF CRUSHING, CONVEYING AND CONCRETE MIXING PLANT AT POWER HOUSE

Because plenty of electric power was available, and because shipments of coal are becoming more and more difficult to obtain promptly, electric power was used wherever possible on the work. As stated, the haulage equipment uses 600-volt direct current, transformed by rotary converters at the central stations. The other equipment uses 440-volt alternating current, the lines to the two large electric shovels carrying current at 4000 volts to transformers on the shovels themselves. For the smaller plant units the current is stepped down before being delivered to the machine.

For organization purposes, the work, which is being done entirely by the forces of the Hydro-Electric Power Commission, has been divided into four sections. The first of these includes the deepening of the Welland River. The second is the portion of the main canal from station 0 to station 235, the third is the other half of the main canal from station 235 to the forebay, and the fourth section includes the power house, gate-

house and the forebay itself. Sir Adam Beck is chairman of the commission, for which Frederick A. Gaby is chief engineer, Henry G. Acres hydraulic engineer, T. H. Hogg assistant hydraulic engineer and M. V. Sauer designing engineer. The work is in charge of J. B. Goodwin, works engineer, under whom G. H. Angell is general superintendent and A. C. D. Blanchard field engineer. F. W. Clark is assistant field engineer, R. T. Gent plant engineer, and William Snaith office engineer. C. F. Whitney is resident engineer on divisions 1 and 2, George Lowry on division 3, and W. S. Orr on division 4.