

Marine and Fisheries—Marine Branch.

order. The galvanized iron building from which the light is shown is an experimental one, designed by Messrs. Noah L. Piper & Son, of Toronto and was furnished the department at a cost of \$140. The lantern is hoisted in a cylindrical column surmounting a hexagonal shed which stands 100 feet from the outer end of the east breakwater pier. It is hoped that lights of a more permanent character will be established next year.

Pine Tree Harbour, Range Lights.

On representations made by parties interested in shipping from Pine Tree Harbour, on the west coast of North Bruce, Lake Huron, two headlight lanterns with accessories, were provided by this department, at a cost of \$54.50, and two range lights were, in July last, put in operation by private enterprise, to lead into the harbour, and will hereafter be regularly maintained. The poles on which the lanterns are hoisted, and the cost of maintenance are provided by the shipping interested, the government only supplying oil.

Cabot Headlight and Fog-alarm.

The construction of a lighthouse and fog-alarm on Cabot Head, on the eastern coast of Georgian Bay, has been undertaken. This station will be a very important one, as Cabot Head is the principal point of departure for all vessels entering Georgian Bay and bound for ports south of Parry Sound, including Midland, Collingwood and Owen Sound. It will also mark Wingfield Basin, which, when the entrance is properly dredged, will make an important harbour of refuge. The contract for the necessary buildings has been awarded to Mr. John George of Port Elgin, for \$3,475, and construction is now in progress. The fog-alarm boilers and machinery have been made by Messrs. Carrier, Lainé & Co., of Lévis, and the iron lantern and illuminating apparatus by the Chanteloup Manufacturing Co., of Montreal.

Western Islands Lighthouse and Fog-alarms.

The Western Islands, off the Eastern coast of the Georgian Bay, have always been a menace to navigation, as they are on the route from Collingwood to Parry Sound, and on the route from the gap to Midland Bay, a route greatly used by grain vessels in the stormy nights towards the close of navigation. It was therefore considered desirable to mark them by a light and fog-alarm, which have been erected on Double Top Rock, at the south-western extremity of the group of islands, and which were put in operation on the 24th October, 1895. In consequence of the exposed location of these islands, it was necessary to erect buildings capable of resisting heavy spray.

The lighthouse tower stands on the south-west part of the rock. It is an octagonal wooden building with sloping sides and is painted white. It is surmounted by an iron lantern painted red. The height of the building from the rock to the vane on the lantern is 59 feet.

The light is fixed white, elevated 74 feet above the level of the bay, and should be visible 14 miles from all points of approach. The illuminating apparatus is temporarily dioptric of the seventh order, but it is intended to replace this by a more powerful apparatus.