

it is proposed to establish a dry dock capable of accommodating the largest vessels afloat. It would be in two sections and 1,150 ft. long, so that two fair sized vessels could be handled at one time. Plans had been deposited with the Government, and it is expected that the maximum subsidy of 4% on a capital expenditure of \$5,500,000 will be granted in aid. Negotiations have been under way for some time regarding the financing of the project in England, and it is anticipated that this will be accomplished in the near future.

Powerful Dredge for Toronto Harbor Development.

The first of two large dredges for use on the Toronto Harbor Commission's improvements to the harbor was launched at Polson Iron Works, July 11, and named Cyclone. These dredges are being built for the Canadian Stewart Co., the general contractors for the work.

The hull, which is of steel, is built on lines similar to a battleship, instead of an ordinary dredge, and weighs 750 tons. It is 170 ft. long, 42 ft. beam, and 12 ft. deep. The framework under the engine is built extra heavy, comprising extra deep floors, intercostal at intervals. The engines, which were supplied from the United States, are of the ocean going type, which are necessary for the great strain while the suction pumps are in operation. The ladder is 10 ft. long, at the base of which is the boring machine, weighing about 50 tons. The suction pipe is capable of dredging a channel 500 ft. wide. The pump in the middle of the dredge is operated by an engine of 1,750 h.p., and the dredge is equipped with a pipe line over a mile long.

Canadian Notices to Mariners.

The Department of Marine has issued the following:—

185. June 6. Quebec, River St. Lawrence, chart of Lake St. Louis, correction.
186. June 6. Ontario, Lake Erie, Port Burwell, gas lighted beacon established on west breakwater.
187. June 6. United States of America, Lake Ontario, east end, uncharted shoal southward of Calf Island.
188. June 9. Ontario, River St. Mary, Sault Ste. Marie Canal, channel at lower entrance, change in characteristic of gas buoy light.
189. June 9. Ontario, River St. Mary, Sault Ste. Marie Canal, channel at upper entrance, change in characteristic of gas buoy light.
190. June 9. Ontario, River St. Mary, Vidal shoal, change in characteristic of gas buoy lights.
191. June 9. Ontario, Lake Superior, eastern end, Outer Pancake shoal, change in color of gas buoy light.
192. June 11. British Columbia, Fitzhugh Sound, Aldenbrooke Island, fog bell, additional information.
193. June 11. British Columbia, Vancouver Island, east coast, Stuart Channel, Oyster harbor, Cluster rocks, beacon discontinued.
194. June 11. British Columbia, Vancouver Island, Saanich Inlet, southwestward of White rocks, buoy established.
195. June 11. British Columbia, Johnstone Strait, Thurlow Island, Vansittart, day beacon moved and enlarged.
196. June 11. British Columbia, Okisollo Channel, Bjerre rock, day beacon erected.
197. June 11. British Columbia, Okisollo Channel, Pulton Bay, day beacons erected.

198. June 12. Ontario, Lake Huron, channel northwestward of Cape Hurd, buoys established.

199. June 12. Ontario, Georgian Bay, Victoria Harbor, buoys discontinued.

202. June 20. British Columbia, Canadian list of lights and fog signals, new edition.

203. June 20. British Columbia, Vancouver Island, Juan de Fuca Strait, Sooke Inlet, Whiffen spit, change in color of light.

204. June 20. United States of America, Haro Strait, San Juan Island, Limekiln light established.

205. June 22. Canadian list of lights and fog signals, new edition.

206. June 22. Ontario, Lake Huron, Goderich north breakwater, fog alarm under construction, new lighting apparatus being installed in beacon.

207. June 22. Ontario, Georgian Bay, east side, Brebeuf Island, Brebeuf front range light improved.

208. June 23. Ontario, Napanee River, dredging, list of buoys.

209. June 25. New Brunswick, south coast, Bay of Fundy, Lorneville, light established on breakwater.

210. June 25. Nova Scotia, Bay of Fundy, Minas Basin, Tennycape, pole light on wharf.

211. June 25. Quebec, River St. Lawrence below Quebec, Traverse of St. Roch, lower end, change in position of lightship.

212. June 25. United States of America, Massachusetts, Boston harbor, Gallups Island, light and fog signal established.

213. June 26. Ontario, Georgian Bay, east side, inside channel between Penetanguishene and Parry Sound, buoys established.

214. June 26. Ontario, Georgian Bay, east side, inside channel between Penetanguishene and Parry Sound, beacons erected.

215. June 29. Quebec-Ontario, River St. Lawrence, Lake St. Francis, eastern portion, chart, Coteau Landing to Lancaster, issued.

216. June 29. Ontario, River St. Lawrence, Thousand Islands, channel northwest of Grenadier Island, buoyage.

217. June 30. British Columbia, Vancouver Island, west coast, off Cape Beal, submarine bell buoy not to be established.

218. June 30. British Columbia, Vancouver Island, west coast, off Clo-Oose, submarine bell buoy to be established.

219. June 30. British Columbia, list of buoys, beacons and daymarks, corrections.

220. June 30. British Columbia, Porlier Pass, south of Virago Rock, buoy to be withdrawn.

221. June 30. British Columbia, Vancouver Island, east coast, False Narrows, buoys to be withdrawn.

222. June 30. British Columbia, Portland Inlet, Naas Bay, Fort Point, day beacon erected.

223. July 2. Canada, regulations governing the operation of swing spans of railway bridges.

224. July 3. Nova Scotia, south coast, Halifax harbor, Ives Knoll, conical buoy to be replaced by gas buoy.

225. July 3. Prince Edward Island, north coast, Savage harbor, bearing of range lights.

226. July 3. New Brunswick, north coast, Chaleur Bay, Grande Anse, light established.

227. July 3. Quebec, River St. Lawrence, off Metis Point, change in position of submarine bell buoy.

228. July 3. Quebec, River St. Lawrence, Lavaltrie to Ile Deslauriers, positions of buoys marking Repentigny Channel.

229. July 8. Quebec, River St. Lawrence, Lake St. Louis, inner channel between Lachine wharf and Dorval, buoys established.

Telegraph, Telephone and Cable Matters.

J. D. Wood, assistant traffic chief, Great North Western Telegraph Co., Montreal, died there, July 4, after an illness lasting from the commencement of the year.

The Dominion Government is undertaking the erection of a telegraph line from Lake Saskatoon, Alta., to Fort St. John, B.C. It is expected that the work will be completed by the end of the year.

The Pacific Cable Board has applied to the Department of Public Works for permission to lay a cable from the Pacific cable hut at Bamfield to Alberni, B.C., and has deposited a plan and description of the site selected.

The Maritime Telegraph and Telephone Co. has laid a combined telegraph and telephone cable between Wood Islands and Caribou, thus establishing telephone communication between Prince Edward Island and the mainland.

The Canadian Northern Telegraph Co. has opened an office at Weldon, Sask.

J. Kent, Manager, C.P.R. Telegraphs, and J. McMillan, General Superintendent of Telegraphs, Western Lines, inspected the telegraph lines in the western provinces during July.

J. G. Davies, heretofore local manager, C. P. R. Telegraphs, Victoria, B. C., has been appointed local manager, Great North Western Telegraph Co., Ottawa, Ont., vice C. G. Davies, his brother, promoted. Pending the arrival of the new manager, R. J. Daly acted in that capacity.

The Marconi Wireless Telegraph Co. (English) announces dividends of 10% on both the preference and ordinary shares, making a total of 17% on the preference, and 20% on the ordinary for the year. The gross profits last year were £254,583, and the net £122,323.

The Department of Public Works received tenders to July 27, for the supply of 23 knots of single conductor submarine telegraph cable, delivered at Halifax, N.S.; 14 knots of similar cable, delivered at Vancouver, B.C.; 270,000 lbs. of galvanized iron telegraph wire, delivered at Montreal, and 342,000 lbs. of similar wire, delivered at Vancouver, B.C.

C. E. Davies, local manager, Great North Western Telegraph Co., Ottawa, Ont., has been appointed Superintendent of Traffic, Toronto. He came to Canada in 1906, from Helena, Mont., where he had been in the Western Union Telegraph Co.'s service, and entered G. N. W. T. Co.'s service as chief operator at Ottawa. He was appointed local manager there in 1906, and in 1911 was also appointed Superintendent of Equipment.

The old building, which housed the Western Union Telegraph Company in New York since 1875, is being taken down to make room for a modern structure. The telegraph company has moved to new quarters. Moving a large station such as this, with 2,500 wires and over 1,000 employes, handling 150,000 messages a day, was no small matter. Promptly at midnight on Saturday, June 27, the moving commenced. During the slack hours of Sunday the transfer was completed, and the operators had a chance to become acquainted with their new surroundings.

The Universal Radio Syndicate's wireless telegraph station at Newcastle, N.B., is completed, and the companion station at Ballyunion, Ireland, is reported to be almost complete. The system of telegraphy in use is the Poulsen, differing materially from the Marconi system. In the latter the line of transmission is opened at each sig-