

Railway Equipment Notes.

The G.T.R. has completed a new switching locomotive at Fort Gratiot, Mich.

The Intercolonial Ry. has completed a new passenger locomotive at its Moncton, N.B., shops.

The G.T.R. has bought material for 25 compound Richmond locomotives, 900 class, to be built at its Point St. Charles shops.

H. Weston, an employee of the C.P.R. car shops at Perth, Ont., has secured a patent for a pneumatic electric axle light system for lighting and ventilating all kinds of passenger cars.

The Point Ann Ry. Co., Belleville, Ont., has purchased a locomotive from the Estate of the late Jas. Cooper, Montreal, also 11 dump cars, and will probably add a passenger car to its equipment.

The American Locomotive Co. has completed, at its Paterson, N.J., works, two simplex consolidation locomotives for the Sydney and Louisburg Ry. They are the first of their kind to be imported into Canada.

The Quebec Ry. Light and Power Co. is in the market for six box and 10 flat cars, the purchase of which was recommended at the annual meeting recently held. The Company will require the cars early in 1904.

The White Pass and Yukon Ry. is building two passenger cars at its Skagway shops. They are 40 ft. long over end sills, 47 ft. 10 in. over couplers, and 8 ft. 6 in. wide over sills. They will have a seating capacity of 50.

The Michigan Central Rd. has recently added the following shop equipment at its St. Thomas, Ont., shops: six inch radial drill, 200 lb. upright helve hammer, air compressor, variable self-feed rip saw, bulldozer, and an automatic saw plug machine.

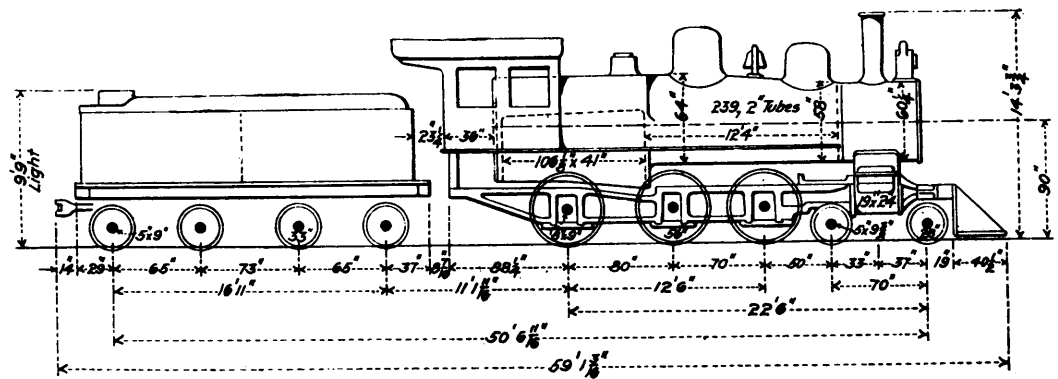
The P.E. Island Ry.'s rolling stock is to be equipped with the Westinghouse air brake, funds for that purpose having been voted at last session of the Dominion Parliament. It is intended to put the equipment on 13 locomotives, 33 passenger cars and 117 freight cars.

The Canadian Northern Ry. added to its equipment between Oct. 13 and Nov. 16, 5 freight locomotives built by the Canadian Locomotive Co., Kingston, Ont.; 61 box cars, 60,000 lbs. capacity, built by Rhodes, Curry & Co., Amherst, N.S.; and 90 box cars, 60,000 lbs. capacity.

The Michigan Central Rd. has under construction for its Canadian lines at its St. Thomas, Ont., shops four consolidation locomotives. It has recently completed at the same shops 24 box cars, 35 ft., 80,000 lbs. capacity; one coal car, 40 ft., 40,000 lbs. capacity; one flat car, 40 ft., 40,000 lbs. capacity.

The C.P.R. received the following equipment between Oct. 14 and Nov. 14: four passenger and five freight locomotives from Scotland; three freight locomotives from the Saxon Engine Works, Chemnitz, Germany; one freight locomotive from the American Locomotive Co.'s Schenectady shops; two first-class cars from the C.P.R. Hochelaga shops; one first-class car and 43 stock cars from Rhodes, Curry & Co., Amherst, N.S.; 94 box cars and 83 flat cars from the C.P.R. Perth shops; and six vans from its Farnham shops.

The suggestion having been made that Canadian manufacturers of locomotives should be asked to tender for locomotives required by the Indian Government and the various British Colonial government railways, an objection was made that the governments had



TEN WHEEL LOCOMOTIVE FOR CANADIAN NORTHERN RY.

no representative in Canada who could inspect the locomotives. This objection has been overcome, the Department of Railways having consented to either allow a member of its staff to make the inspections, or to select some one to do so. The arrangement was made at the instance of the Locomotive and Machine Co. of Montreal.

The Wabash Rd. has added three Atlantic type locomotives to those already in use in Canada, for the operation of the Wabash trains on the G.T.R. southern division between Windsor and Fort Erie, Ont. The locomotives have hitherto been in use on the Co.'s line in the U.S. They were built by the Baldwin Locomotive Works and have the following general dimensions: weight on drivers, 84,000 lbs.; total weight of engine and tender, loaded, 255,000 lbs.; diameter of driving wheels, 73 in.; diameter of cylinders, 19 in. by 26 in. stroke. Three more locomotives of the same class will also be brought into Canada, early in Dec.

The Canadian Northern Ry.'s locomotive, elevation of which is given on this page, is one of 25 built by the Canadian Locomotive Co. They weigh 133,000 lbs., with 107,000 lbs. on drivers. The boilers are Belpaire narrow fire-box, carrying 180 lbs. pressure, and having 1,691 sq. ft. of heating surface, of which 155 sq. ft. or 9% is in the fire-box. There are 239 2-in. tubes 12 ft. 4 in. long, the area of the cross-section of the 58-in. boiler taken up by the tubes being 27.5%. The cylinders are 19 in. x 24 in. and the drivers 56 in., enabling a tractive effort of 23,670 lbs. to be exerted. The special equipment includes Westinghouse-American brakes. Other dimensions are:

Wheel base, rigid.....	12 ft. 6 in.
Wheel base, total.....	22 ft. 6 in.
Length over all, engine and tender.....	69 ft. 1 1/2 in.
Height to centre of boiler.....	7 ft. 6 in.
Heating surface, fire-box.....	155 sq. ft.
Heating surface, tubes.....	1,536 sq. ft.
Heating surface, total.....	1,691 sq. ft.
Grate area.....	30 sq. ft.
Driving wheels, diameter.....	56 in.
Driving wheels, material of centres.....	Cast iron
Diameter and length of journals.....	8 in. x 9 in.
Truck wheels, diameter.....	28 in.
Weight of tender, loaded.....	101,000 lbs.
Capacity of tank, imperial gals.....	4,500
Coal capacity.....	9 tons

Canadian Society of Civil Engineers.

The first meeting of the general section was held in the Society's rooms, Montreal, Oct. 5. In the absence of the Chairman of the section, G. A. Mountain, W. McL. Walbank occupied the chair. A paper on sewage disposal at the Provincial jail at New Westminster, B.C., written by E. Mohun, was read by J. W. Hickman; and a paper on the Canadian Northern Ry. Co.'s fireproof grain storage elevator at Port Arthur, Ont., written by R. M. Pratt, was read by W. J. Sproule. These papers were partially discussed, a fuller discussion being postponed until the next meeting.

RAILWAY FINANCE, MEETINGS, ETC.

Algoma Central and Hudson Bay Ry.—An action has been entered in the U.S. circuit court at St. Paul, Minn., by Cook Bros., contractors, Sault Ste. Marie, Ont., against Foley Bros., Porter & Whalen, to recover \$26,695 stated to be due on account of the construction of the A.C. and H.B. Ry.

Atlantic and Lake Superior Ry.—The Dominion Government has appointed H. A. F. McLeod, C.E., a commissioner to ascertain the amount of subsidy due in respect of work done between Caplin and Paspébiac, Que., on the Baie des Chaleurs section; and G. A. Mothersill has been appointed a commissioner to investigate claims for labor, boarding house claims, and claims for material and supplies, furnished in connection with the same piece of line.

Brockville, Westport and Northwestern Ry.—At the organization meeting held Nov. 23, the following were elected officers: President, J. Gerken, New York; Vice-President, C. R. King, Philadelphia; Treasurer, H. W. Gennerich, New York; Secretary, C. Heilshorn, New York; other directors: V. Schmitt, M. Zimmerman, W. H. Comstock, R. Bowie, Brockville, Ont.; J. Cumming, Lyn, Ont.; W. C. Fredenburg, Westport, Ont.; Counsel, Hohn and Smith, New York; W. S. Buell, Brockville, Ont. The old Brockville, Westport and Sault Ste. Marie Ry. Co. has now ceased to exist, and its lines and franchises are vested in the B. W. and N. W. Ry.

British Columbia Electric Ry. Co.—Earnings and expenses for Sept.:

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GROSS EARNINGS.	1902.	1903.	Increase or Decrease.
Railway—Vancouver division	\$12,816	\$16,167	\$3,351+
Victoria "	9,725	9,359	366-
Westminster "	10,780	12,372	1,592+
Lighting—Vancouver division	12,768	18,198	5,430+
Victoria "	6,554	8,539	1,985+
	<u>52,643</u>	<u>64,635</u>	<u>11,992+</u>
Less working expenses	31,898	38,229	6,331+
	<u>20,745</u>	<u>26,406</u>	<u>5,661+</u>
Renewal funds.....	4,222	4,988	766+
Net income.....	<u>16,523</u>	<u>21,418</u>	<u>4,895+</u>
Aggregate gross earnings, July 1, to Sept. 30	<u>155,157</u>	<u>188,373</u>	<u>33,216+</u>
Aggregate net earnings, July 1, to Sept. 30.....	<u>\$49,422</u>	<u>\$67,113</u>	<u>\$17,691+</u>

Calgary and Edmonton Ry.—Notice has been given that application will be made to the Minister of Railways, Dec. 16, to sanction the lease of the C. and E. Ry. to the Canadian Pacific Ry. The earnings of the railway have been included in those of the C.P.R. since Oct. 1,