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THE

Railway and Marine World

With which are incorporated The Western World and The Railway and Shipping World, Established 1890

D_{evoted} to Steam and Electric Railway, Marine, Grain Elevator, Express, Telegraph, Telephone and Contractors' interests

TORONTO, CANADA, JUNE, 1909.

For Subscription Rates, See page 429.

The Intercolonial Railway Shops.

In our issue of July, 1906, general par-Which it was proposed to erect at Moncton, N.B., for the I.C.R. ^{rra}N.B., for the I.C.R. These but fal facts were supplemented by an il-ustratel article in our issue of Sept., 1988, giving considerable additional in-formation of the shore, which These genformation respecting the shops, which NOW fast approaching completion. In a recent speech the Minister of Railways said "these shops will serve

Grand Trunk Pacific National Transcontinental Ry.) Ry. η_{008e} of Commons the followhg memorandum descriptive of the shops:

FREIGHT CAR REPAIR SHOP.-862'-0" ⁶⁷e⁻⁰" x 134'-8". Area cov-47,400 sq. ft. Net floor area ents 1,573,000 cubic ft. Net con-ents 1,541,000 cubic ft. This hulding is composed of concrete foundations; reinforced concrete wall columns, curtain $w_{alls,}^{artete}$ wall columns, curtain $w_{alls,}^{and}$ and roof slab; steel $w_{w_{alls}}$ and purlins. There are We and purlins. There are a set of steel ^{10ngitudinal} rows of Electronic states of the states of between rails are of 3" plank; between rails are of a process of the process of th ^{meen} tracks the floors and mastic cement. Six repair tracks hun through the building, pro-¹⁰ through the building, pro-¹⁰ through the building, pro-¹⁰ through the building accommodation ¹⁰ the cars. Reinforced con-¹⁰ the cars. Reinforced be-¹⁰ the floor. ¹⁰ PLANING THE POOL S'' x S1'

 P_{LANING}^{*} MILL. 202' 8" x 81' 10°; together with a fan house 20' x 20'. Area covered 17,100 m x 20'. Area of floor $\frac{1}{1000}$ 20' x 20'. Area covered $\frac{1}{1000}$ sq. ft. Net area of floor $\frac{16}{400}$ sq. ft. Gross cubic con-tents 550 cft. Gross cubic contents 550,000 cubic ft. Net conlents 523,000 cubic ft. This build-lag is concrete is composed of concrete foundations, surmounted by a steel frame with curtain walls teel frame, with curtain walls and roof slab of reinforced contrete. The bottom chords of trusses are designed to carry 3 ⁽ⁿ⁾_{θη} trolleys, and the floor space ^(k)_β entire

entirely free from obstruction. The option is of hardwood. Reinforced con $t_{e_{t_e}}^{t_e}$ is of hardwood. Reinforced the $t_{0_{0p}}^{t_e}$ air ducts are placed beneath the

PASSENGER CAR REPAIR SHOP. 361'-S" 100°-0". Area covered 36,100 sq. ft.; et area of floor 371,000 sq. ft.; Net Grass cubic contents 887,000 cubic ft. Net Contents 000 cubic ft. This is a autents 856,000 cubic ft. This is a ansverse besides ransverse shop with 18 tracks, besides an area a_{rea}^{cyse} shop with 18 tracks, 500 ft., a_{rea}^{cyse} at one end of 36 ft. x 100 ft., a_{rea}^{cyse} here for which together with a mezzanine floor ft, together with a mezzannic the transformed con-p, $T_{\rm T}$ to ft, is for use as a cabinet shop. The building is of reinforced con-

crete throughout, having four longitudinal rows of columns. Between the rails plank floors are provided; between tracks the flooring is of concrete. Reinforced concrete air ducts are placed beneath the floor.

PASSENGER CAR PAINT SHOP .--- 361 ft .--in. x 100 ft.-0 in. Area covered 361,000 sq. ft. Net area of floor 371,000. Gross cubic contents 887,000 cubic ft. Net contents 856,000. This building is practically a duplicate of the repair

ROBERT PATTERSON Master Mechanic, G.T.R. Shops, Stratford, Ont.

devoted to upholstering and varnishing. STOREHOUSE AND OFFICE BUILDING. 343 ft.—8 in. x 51 ft.—8 in. Area covered by building 17,700 sq. ft. Net area of floors, 50,800 sq. ft. Area covered by platform, 7,900 sq. ft. Net area including platform, 58,700 sq. ft. Gross cu. contents exclusive of platform, 674,000 cu. ft. Net contents, 610,000 cu. ft. The building is of reinforced concrete throughout, except the office partitions, which are of porous tile. The building consists of two stories and a basement. The greater part of the upper floor is devoted to offices. The building is provided on two sides and one end with a concrete platform designed for heavy loads. Freight elevators connect the different floors. The interior is well finished. Floors are of hardwood except in basement which is of concrete. An ample supply of plumbing fixtures has been provided, and the building equipped for steam heating.

LOCOMOTIVE SHOPS .- Area covered 171,000 sq. ft. Net area of floors 168,000 sq. ft. Gross cu-bic contents, 7,360,000 cubic ft. Net contents, 7,270,000 cubic ft. This is a group of buildings comprising;

BOILER SHOP.-375 ft.-1 in. x 102 ft .--- 3 in. In two bays, with riveting tower at one end of the erecting bay. The tool bay is served by a 10 ton electric travelling crane; the erecting bay by a 35 ton crane; and the riveting tower by a 30 ton crane. Plank floor on timber sills.

LOCOMOTIVE ERECTING SHOP .----375 ft.—1 in. x 81 ft.—1 in. This shop is arranged with a central longitudinal pit, flanked upon either side by individual pits arranged in herring bone pattern. There is standing room for six locomotives upon the central pit, and for sixteen locomotives upon the side pits. Two electric travelling cranes, each of 60 ton capacity, command the shop. Flooring is of plank resting upon timber sills.

FORGE SHOP.-375 ft.-1 in. x 76 ft.—8 in. This shop is served by jib cranes. The flooring is of earth.

MACHINE SHOP.—408 ft.—4 in. x 132 ft. 6 in. This shop is in two bays, each of which is commanded by a 10 ton electric travelling crane. The flooring is of plank, supported by a concrete base.

MACHINE SHOP ANNEX.-408 ft. shop, the end area, not occupied by -4 in. x 44 ft. 10 in. This includes the tracks, and the mezzanine floor being bolt room, tool room, brass room, brass foundry, with lavatories upon a mezzanine floor. The foundations of all these shops are of concrete, the skeleton is of steel, with curtain walls and roof slabs of reinforced concrete. Travelling cranes command all floor space except that of the forge shop and the machine shop Reinforced concrete air ducts annex. are placed beneath the floors of all these shops, forming the locomotive group.

POWER HOUSE.-203 ft.-2 in. x 69 ft. Area covered, 14,000 sq. ft.; net area of