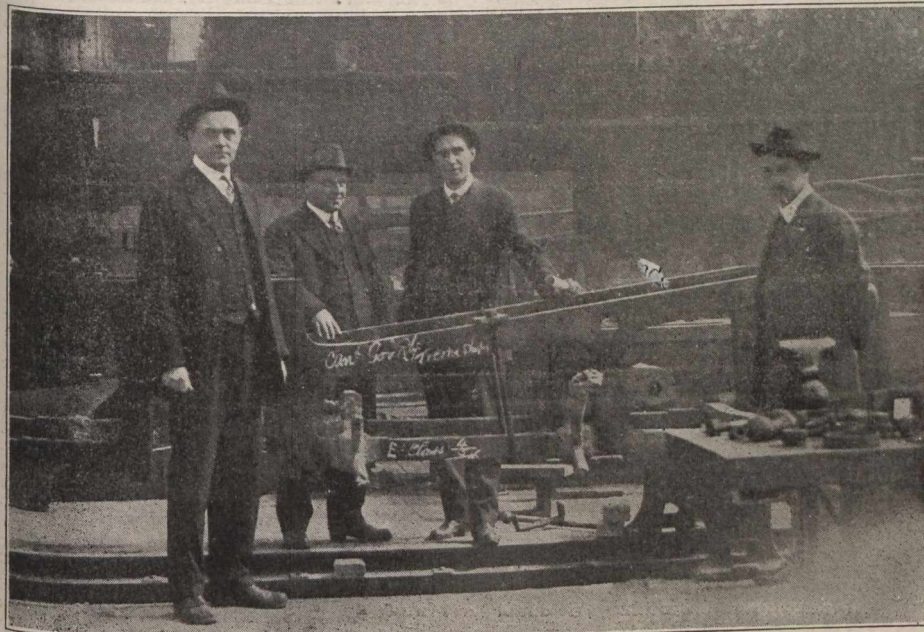


methods and the future alone will doubtless draw still more distinct lines around this individual field of usefulness and economy. Following is a statement of comparative cost of thermit welds:—

Locomotive 405.—Labor \$5.00, one weld; material \$15.60; total \$20.60.

Locomotive 212.—Labor \$14.64, four welds; material \$38.00; total \$52.64.

Locomotive 427.—Labor \$15.60, four welds, material \$40.00, total \$55.64.



Locomotive 634.—Labor \$5, one weld; material \$15.60, total \$20.60.

(EDITOR'S NOTE.—The other illustrations, not particularly referred to in the foregoing article, show thermit welds done by S. Lewis, at Transcona.

Canadian Government Railways' Elevator at St. John.—Plans for an elevator to be erected in St. John, N.B., by Canadian Government Railways, were considered by the city council recently. Some objection had been taken to the original plans, as it was claimed that traffic on Water St. would be blocked and access to the Lower Cove Basin prevented. J. K. McNeillie, General Superintendent, stated that it was the intention to provide an elevator of 500,000 bush. capacity, so arranged that it could be increased to 1,000,000 bush. when desirable. New wharves will be built, and later, the grain conveyors will be removed from their present location.

The Minneapolis, St. Paul & Sault Ste. Marie Ry. has awarded contracts for the construction of a reinforced concrete ore dock at Ashland, Wis., for a total capacity of 60,000 tons. It will be 900 ft. long with four tracks 80 ft. above water level. Including the dock head, the reinforced concrete portion of the structure will be 1,132 ft. long.

The Mutual Grain Co., Ltd., has been incorporated under the Dominion Companies Act, with \$199,000 authorized capital and office at Winnipeg, to carry on a general grain elevator, warehouse and milling business, and in connection therewith to own and operate grain elevators, steam and other vessels, etc.

The C.P.R. has increased the wages paid to machinists, boiler makers, pipe fitters, car men, electrical and sheet metal workers, on its lines east of Fort William, Ont., by 8%, and has also granted improved working conditions which it is said are equal to a further 25%.

Birthdays of Transportation Men in September.

Many happy returns of the day to:—

G. W. Alexander, Local Treasurer, G.T.R., Western Lines, Detroit, Mich., born at Lightcliff, Yorks., Eng., Sept. 10, 1859.

H. Bailey, Bridge and Building Master, National Transcontinental Ry., Parent,

Signal Oil Co., Ottawa, Ont., born at Drummondville, Que., Sept. 12, 1856.

R. S. Gosset, Auditor of Disbursements, Canadian Northern Ry., Toronto, born there, Sept. 28, 1879.

E. Goulet, Agent, C.P.R., New Westminster, B.C., born at Quebec, Que., Sept., 1865.

John Gray, General Agent, G.T.R., Toronto, born at River Beaudette, Que., Sept. 28, 1863.

D. W. Hatch, Travelling Agent, Atchison, Topeka and Santa Fe Ry., Montreal, born at Bedford, Que., Sept. 1, 1841.

W. B. Howard, District Passenger Agent, C.P.R., Toronto, born at Chatham, N.B., Sept. 15, 1877.

W. R. Howard, Chief Dispatcher and Trainmaster, District 1, Atlantic Division, C.P.R., Brownville Jct., Me., born at St. Andrews, N.B., Sept. 14, 1871.

E. Humphreys, Storekeeper, C.P.R., Winnipeg, born at Hull, Eng., Sept. 24, 1869.

J. E. Hutcheson, General Manager, Montreal Tramways Co., Montreal, born at Brockville, Ont., Sept. 15, 1858.

C. B. King, Manager, London St. Ry., London, Ont., born at Galena, Ind., Sept. 12, 1871.

S. King, ex-Superintendent, Canadian Car and Foundry Co., director, National Steel Car Co., now of London, Ont., born at Thetford, Norfolk, Eng., Sept. 12, 1853.

R. E. Larmour, General Agent, Freight Department, C.P.R., New York, born at Brantford, Ont., Sept. 26, 1868.

H. D. Lumsden, M.Can.Soc.C.E., Engineering Department, C.P.R., Toronto, born at Belhaire, Scotland, Sept. 7, 1844.

G. S. Lytle, Car Service Agent, Manitoba Division, C.P.R., Winnipeg, born at Dennison, Ia., Sept. 23, 1878.

C. D. MacKintosh, Superintendent, District 1, Alberta Division, C.P.R., Medicine Hat, born at Auckland, New Zealand, Sept. 24, 1882.

F. J. Mahon, Inspector of Telegraphs, Saskatchewan Division C.P.R., Saskatoon, born at Montreal, Sept. 18, 1865.

W. A. Mather, Assistant General Superintendent, British Columbia Division, C.P.R., Vancouver, born at Oshawa, Ont., Sept. 1885.

J. F. Mundle, City Freight Agent, C.P.R., Montreal, born at Prescott, Ont., Sept. 20, 1857.

M. B. Murphy, Superintendent, District 2, Central Division, Canadian Northern Ry., Winnipeg, born at Napa, Cal., Sept. 11, 1866.

J. Paul, District Freight Agent, Canadian Northern Ry., Winnipeg, born in Euphrasia Tp., Ont., Sept. 13, 1858.

W. J. Pickrell, Master Mechanic, Ontario Division, C.P.R., Toronto, born at London, Ont., Sept. 15, 1880.

W. D. Robb, Superintendent of Motive Power, G.T.R., Montreal, born at Longueuil, Que., Sept. 21, 1857.

H. T. Ruhl, Division Engineer, Canadian Government Railways, Moncton, N.B., born at Mifflinburg, Pa., Sept. 29, 1882.

A. Scott, Resident Engineer, Prince Edward Island Ry., Charlottetown, P.E.I., born at Kirkcaldy, Scotland, Sept. 6, 1884.

J. M. Silliman, Resident Engineer, District 3, Eastern Division, C.P.R., Montreal, born at Easton, Pa., Sept. 8, 1885.

H. A. Young, Ontario Storage and Cartage Co., Ltd., Toronto, born at Brooklyn, N.Y., Sept. 1, 1864.

Que., born at Huntsville, Ont., Sept. 2, 1879.

W. B. Bamford, District Freight Agent, C.P.R., Toronto, born at Belleville, Ont., Sept. 10, 1863.

G. T. Bell, Passenger Traffic Manager, G.T.R., Montreal, born there, Sept. 7, 1861.

W. H. Biggar, K.C., Vice President and General Counsel, G.T.R., and G.T.P.R., Montreal, born at The Carrying Place, near Trenton, Ont., Sept. 19, 1852.

E. J. Blais, Foreman Tinsmith, National Transcontinental Ry., Transcona, Man., born Sept. 26, 1876.

E. R. Bremmer, ex-Division Freight Agent, Ottawa Division, G.T.R., Ottawa, born at Toronto, Sept. 9, 1875.

M. H. Brown, Division Freight Agent, Ontario Division, C.P.R., Toronto, born at Victoria Square, Ont., Sept. 2, 1866.

W. B. Bulling, ex-Assistant Freight Traffic Manager, Eastern Lines, C.P.R., Montreal, born there, Sept. 16, 1858.

W. E. Burke, Assistant Manager, Canada Steamship Lines, Ltd., and President, Dominion Marine Association, Toronto, born at Belleville, Ont., Sept. 23, 1881.

A. D. Cartwright, Secretary, Board of Railway Commissioners, Ottawa, born at Kingston, Ont., Sept. 30, 1864.

A. S. Dawson, M.Can.Soc.C.E., Chief Engineer, Department of Natural Resources, C.P.R., Calgary, Alta., born at Pictou, N.S., Sept. 6, 1871.

W. E. Duperow, Assistant General Passenger Agent, Grand Trunk Pacific Ry., Winnipeg, born at Stratford, Ont., Sept. 4, 1872.

W. H. Estano, Traffic Auditor, Intercolonial Ry., Moncton, N.B., born at Halifax, N.S., Sept. 29, 1874.

C. B. Foster, Assistant Passenger, Traffic Manager, Eastern Lines, C.P.R., Montreal, born at Kingston, N.B., Sept. 30, 1871.

J. P. Ferguson, representing Galena