

several explorations and surveys was that it was well established that a railway could be economically constructed through the country, which was reported to be fertile, and containing large mineral areas. When the building of the C.P.R. was entrusted to a company, the southern route via the Kicking Horse pass was chosen with a terminus at Vancouver, and it was left for other companies to exploit the northern passes.

The most promising of the projects reaching out in this direction is the Canadian Northern Ry., the evolution of which from a local line in Manitoba to a transcontinental line is proceeding apace under the ægis of Mackenzie, Mann & Co. One charter after another has been acquired, lines have been leased, others have been constructed, and with the passing of the Canadian Northern Ry. Act of 1902 by the Dominion Parliament, it is possible to map out the route of the new transcontinental line with a degree of accuracy hitherto impossible. In reading the act it is necessary to remember that the C.N. Ry. has its operating center in Winnipeg, and that all the work in connection with the extension of the line is referred to as being easterly towards the Atlantic, or westerly towards the Pacific. At the present time what is looked upon as being the main line starts at Port Arthur, Ont., runs through the Rainy river valley, through a portion of the state of Minnesota into Manitoba, and on via Winnipeg to Erwood, Sask., 810 miles; the whole system, including branches, extending over about 1,250 miles. The new lines authorized this year include a line easterly from a point between Fort Frances and Port Arthur, north-easterly and south-easterly to Quebec, with branches into Port Arthur, Ottawa and Montreal; a line westerly from the narrows of Lake Manitoba to Edmonton, Alta., and thence to the Pacific coast, near the Skeena river by way of the Pine river pass, with branches to Pas Mission, Sask., and Red Deer river, Alta. This will make the eastern end of the line at Quebec, and the western end at Port Essington or Port Simpson. So far as the eastern section of the line from near Port Arthur is concerned, nothing is likely to be done for some time, perhaps years, as a railway to follow the line suggested would tap an entirely undeveloped and partially unexplored country, south of Lake Nepigon and north of Lake Temiskaming, in Ontario; and through an equally little known country until within a few miles of Quebec.

Of the other lines reaching out to the Pacific coast, the Trans-Canada Ry. Co., with which officials of the Quebec and Lake St. John Ry. Co., and the Great Northern Ry. of Canada are associated, has commenced operations at Roberval, Que. Its objective point is Port Simpson, and it purposes reaching there by the Peace river pass. Two other charters exist for lines through these passes, the Pacific, Northern and Omenica Ry. Co. having B.C. and Dominion charters to construct a line from Kitimaat inlet on the Pacific coast, via Peace River pass, to Edmonton; and the Canada Central Ry. Co. having a charter for a line from French river, Ont., through northern Canada to the Yellowhead pass, and then southerly to Kamloops, Princeton, and into Victoria.

Following are the altitudes of the principal passes:—C.P.R. main line, Kicking Horse pass, Rocky mountains, 5,329 ft.; Rogers pass, Selkirk mountains, 4,351 ft.; Crow's Nest pass line, 4,449 ft.; Yellowhead pass, 3,738 ft.; Pine river pass, about 2,800 ft.; Peace river pass, 2,000 feet.

In the U.S. the Rocky Mountains are crossed by the principal lines as follows:—Northern Pacific Rd., Echo pass, 5,804 ft.; Santa Fee Pacific Rd., Whipple pass, 7,208 ft.; Southern Pacific Rd., Summit pass, 7,107 ft.; Union Pacific Rd., Sherman pass, 8,242 ft.

Canadians in U.S. Railway Service.

Among the Canadians occupying prominent positions in the United States railway service are the following:

C. T. Ambridge, Assistant Auditor, Mexican Northern Ry., at Mexico city, born at Hamilton, Ont., 1854.

W. C. Ambrose, Chief Engineer, Birmingham, Chattanooga & Atlantic Ry., at Birmingham, Ala., born at Princeport, N.S., 1857.

A. Andrews, General Agent, Atchison, Topeka and Santa Fe Ry., at St. Louis, Mo., born at Kincardine, Ont., 1865.

C. C. Annett, Assistant Superintendent Telegraphs, Illinois Central Rd., Chicago, Ill., born in Ont., 1845.

J. Bagley, General Manager, Tacoma, Eastern Rd., Tacoma, Wash., born at Quebec, 1850.

R. Ballance, General Foreman, Car Dept., Burlington and Missouri River Rd., at Denver, Colo., born at Kingston, Ont., 1850.

W. D. Barclay, ex-General Manager Alberta Ry. and Coal Co., and Great Falls and Canada Ry. Co., St. Paul, Minn.; born at Campbelltown, N.B., 1852.

J. A. Barnard, General Manager Cleveland, Cincinnati, Chicago and St. Louis Ry., and President Peoria and Pekin Ry., at Indianapolis, Ind., born at Grenville, Que., 1861.

W. G. Barnwell, Assistant General Freight Agent Southern California and San Francisco and San Joaquin Rys., and Santa Fe Pacific Rd., at Los Angeles, Cal., born at Danville, Que., 1865.

Thomas F. Barton, Master Mechanic, Illinois Central Rd., at Paducah, Ill., was a G.T.R. call boy and machinists' apprentice in Canada, born 1867.

W. R. Bascom, First Assistant General Freight Agent, Illinois Central Rd., at Chicago, Ill., born at Halifax, N.S., 1848.

G. S. Bally, General Passenger and Ticket Agent, Iowa Central Ry., at Marshalltown, Ia., born in 1857, and educated in the Paris, Ont., public schools, and was an office boy on the G.T.R.

J. D. Beardsley, General Manager Louisiana and North West Rd., at Gibsland, La., born at Woodstock, N.B., 1837.

J. M. Bennett, Supervisor Bridges and Buildings, Oregon Short Line Rd., at Pocatello, Idaho, born at Spencerville, Ont., 1844.

J. Berlingett, Superintendent St. Joseph and Grand Island Rd., at St. Joseph, Mo., born at Renfrew, Ont., 1862.

J. Birse, Division Master Mechanic, Chicago Great Western Ry., at St. Paul, Minn., born at Montreal, Mar. 23, 1863.

E. H. Blossom, Assistant Superintendent St. Johnsbury and Lake Champlain Rd., and General Manager Hardwick and Woodbury Rd., at St. Johnsbury, Vt., born at Compton, Que., 1852.

R. M. Boyd, Commercial Agent, Chicago, Milwaukee and St. Paul Ry., at Seattle, Wash., born at Brockville, Ont., 1868.

J. P. Bradfield, Superintendent Western Division New York Central & Hudson River Rd., at Buffalo, N.Y., born in Canada.

T. J. Brennan, Secretary Chihuahua and Pacific Rd., at New York, N.Y.; born at Montreal, 1853.

J. E. Brittain, General Agent, Passenger department Chicago and North Western Ry. at Boston, Mass., born at St. John, N.B., 1862.

D. Brown, Assistant Superintendent of Motive Power, Delaware, Lackawanna and Western Rd., at Scranton, Pa., born in Canada in 1838.

M. Burpee, Chief Engineer, Bangor and Aroostook Rd., at Houlton, Me., born at Sheffield, N.B., 1847.

J. J. Byrne, General Passenger Agent Southern California Ry., Santa Fe Pacific

Rd. and San Francisco and San Joaquin Valley Ry., at Los Angeles, Cal., born at Hamilton, Ont., 1859.

S. R. Callaway, President American Locomotive Co. and ex-President New York Central and Hudson River Rd., at New York, born at Toronto, 1850.

A. Cameron, General Agent, Oregon Rd., and Navigation Co. at Hong Kong, China, born 1864, and educated in Toronto.

W. D. Campbell, General Agent, Chicago and North Western Ry., at Los Angeles, Cal., born at Drumbo, Ont., 1859.

W. W. Campbell, General Baggage Agent, Texas and Pacific Ry., at Dallas, Texas, born at Pictou, N.S., 1846.

A. D. Charlton, Assistant General Passenger Agent, Northern Pacific Ry., at Portland, Ore., born at Hamilton, Ont., 1859.

G. J. Charlton, General Passenger Agent, Chicago and Alton Ry. at Chicago, Ill.; born at Hamilton, Ont., 1860.

M. J. Clark, Secretary and Auditor Chicago and Western Indiana Rd. and Belt Line of Chicago, born at Hamilton, Ont., 1841.

W. Cockfield, Master Mechanic San Luis Division Mexican Central Ry., at San Luis Potosi, Mexico, born at Montreal, 1859.

J. B. Conners, Division Superintendent Norfolk and Western Ry., at Portsmouth, Ohio; born at Toronto, 1856.

M. S. Connors, General Superintendent Hocking Valley Ry., at Columbus Ohio, born at Toronto, 1858.

W. G. Crabbe, Freight Accountant, Central Vermont Ry., at St. Albans, born at Summerside, P.E.I., 1859.

D. Crombie, Jr., Superintendent Transportation, Pere Marquette Rd., at Detroit, Mich., born at Hamilton, Ont., 1864.

H. A. Culoden, Assistant Auditor Sonora Ry. and New Mexico and Arizona Rd., at Guaymas, Mexico, born at Milton, Ont., 1853.

E. Curry, Treasurer Staten Island Rapid Transit Rd., at New York, N.Y., born near Peterboro', Ont., 1843.

W. C. Cushing, Superintendent Eastern Division, Pennsylvania lines, Northwest System, at Allegheny, Pa., born at St. John, N.B., 1863.

D. Davies, General Manager, Virginia and South Western Ry. and Virginia Iron, Coal and Coke Co., at Bristol, Va.-Tenn., born at Charlottetown, P.E.I., 1858.

C. K. Dixon, Superintendent Illinois Central Rd., at Fort Dodge, Ia., born at Granby, Que., 1846.

J. W. Donald, District Passenger Agent, Chicago and Alton Ry., at Buffalo, N.Y., born at St. John, N.B., 1857.

J. Donohue, Assistant General Passenger Agent St. Louis and San Francisco Rd. at Kansas, Mo., born at Waterdown, Ont., 1857.

W. Douglas, Vice-president, Secretary and General Superintendent, Manistee and North-eastern Rd., at Manistee, Mich.; born at Chatham, Ont., 1848.

W. E. Dowle, Division Freight Agent, Delaware, Lackawanna and Western Rd., at Buffalo, N.Y., born 1870, educated at Hamilton, Ont., and was office boy in the freight department of the G.T.R.

A. W. Ecclestone, District Passenger and Ticket Agent New York, Chicago and St. Louis Rd., and Southern Passenger Agent, Central Vermont Rd., at New York, born at Hamilton, Ont., 1858.

J. C. Eden, Assistant General Traffic Manager, Great Northern Ry., U.S., at Seattle; Wash., born at Goderich, Ont., 1864.

R. W. Edwards, Superintendent Eastern Division Chicago Great Western Ry. at Dubuque, Iowa, born at Toronto, 1865.

T. Edson, Freight Accountant and Freight Claim Agent, Michigan Central Rd. at Detroit, Mich., born at Niagara, Ont., 1842.

E. E. Ellis, General Freight and Passenger