### GREAT NORTHERN RAILWAY

abstracted from the Ranway 250

### Great Northern Railway Lines in Canada.

Projected Lines in Saskatchewan and Alberta.—The extension of the line from Niobe, N.D., to Northgate, on the International Boundary, 21 miles, has been completed, and a connection established with the Grand Trunk Pacific Ry. branch from Regina, Sask.

An extension of the branch now terminating at Plentywood, Mont., westerly for 45 miles to Scobey, is reported to have been completed. This extension runs parallel with the International Boundary.

Another line is under construction under the charter of the Grand Falls and Felon County Ry., from Power to Bynum, Mont., on which 45 miles of track has been laid. This line runs northerly, and its present terminus is almost directly south of Cardston, Alta.

L. Hill, President, accompanied by several G.N.R. officials, recently completed a trip through Southern Saskatchewan and Alberta, stopping at Swift Current, Medicine Hat, Calgary, Lethbridge and Cardston. G.N.R. interests hold several charters covering the building of lines in these two provinces, and also own the Crows Nest Southern Ry. A large amount has recently been expended on developing coal mines in the Pincher Creek district, and recent local press reports state that it is expected that

will be use has been now in pr L. Hill, P officers w ing the I upon whi selected, building pg. 479.)

### Addition trolled

The C.
the lines
Ry. Co.,
Coal and
in New
They ar
vision of
Atlantic

A. Sh Brunswi hitherto for the also bee R. Co., office i Frederi

H. Li ter of assigne

Ham

es are
L. steel
in the
braces
he car
d problife of
find, as

hter

ı be

they

a at

itred

bars

ates

Kely

dam-

ened

place

a the

g for

ineer.

end

door

The

stand-

in im-

good

dation

ts the

red to

geable

is an

and

January 1914

press reports state that it is care a start will be made with railway construction in that district in the spring.

Kootenay Ry. and Navigation Co.-The G.N.R. President reported at the annual meeting of shareholders that because of the liquidation of the K.R. and N. Co. the Bedlington and Nelson line between Sirdar Jct. and Kuskanook, B.C., 3.26 miles became of no use and had been removed.

Vancouver, Victoria and Eastern Ry. and Navigation Co.-The G.N.R. President reported at the recent annual meeting that work was in progress on the line of the V., V. and E. Ry. and N. Co., from Kilgard to Sumas Landing, B.C., 10 miles, and on an extension from Coalmount to Otter Summitt 35 miles. The Board of Railway Commissioners has authorized the opening for traffic of a section of the line from mileage 245.84 to 155.619, which is a double track section.

In connection with this line the G.N. Ry. is engaged in building a line in the U.S. to The section under connect at Oroville. construction during the current year extends from Wenatchee to Pateros, Wash. Owing to landslides and other difficulties construction has been delayed, and it is not expected that the line will be ready for operation until June, 1914. The line is 133 miles, and track laying will probably be completed by Mar. 31, 1914.

Vancouver Terminals.—The excavations on the Grandview cut in Vancouver, B.C., are practically completed. The original width of the cutting was 38 ft., but in view of the False Creek reclamation and terminal project, it has been made 66 ft. The greatest depth is 65 ft. The cutting is spanned by seven bridges, and others will be added as street traffic necessitates. Four lines of track have been laid in the cut, and this line of approach into the city, which is 1.5 miles long, has a gradient of 1%. The line originally crossed the streets on the level. The erection of the warehouses on the new dock on Burrard Inlet' is being pro-

ceeded with: It is expected that the wharf

dard inof conpulidella, rould be

8.5

ted

and

the

am-

eri-

ugh

CALS

**tkes** 

not.

ılmi-

cter

the

юше

oden

were

UD-

y be-

spoil-

Mges

mage

with-

Cana-

rably

ug 41.

e fact

**sterial** 

d hav-

weighs

re was

ng the

coperly

it had

an was

sheath-

not, in

ry kiln

owever,

ting to

er, and

LT.

On

steel

way a Nov. to put An e seque of asi time Ott

Arno been H. T Th ed i CATS

repla

took L. Ang befo real prac soci of §

> J. at soll wh sen per the qui

> > the G. bo ga

CO m m lb

T W 

8 . 11

Poolamation of the False Creek Pals. Its 

ada.

now in progress to the original shore line.
I. Hill President, and a number of G.N.R.

d Al-Hobe, Honal Land Frand egina,

officers were in Vancouver recently inspect selected, and it is said that tenders for the upon which the station is to be built was building will be called for at once. (Oct. ing the progress of the work. The site

T. .. NAW Brinswick Con

m d d

# Great Northern Railway Lines in Canada.

Sweet Grass, Mont., through Taber, and the connected with the G.N.R., or some of its associated companies, are reported to be Projected lines in Alberta. - Engineers engaged in locating a route for a line from surrounding coal mining district of

chased 25 acres of land in the vicinity of G.N.R. interests are reported to have pur-Calgary, Alta., and press reports state that it is for terminal purposes.

at New Westminster, B.C., from which the car ferries operate to Sidney, Vancouver 400 ft. long, three tracks wide, with an overcording to the state of the tide. A new car ferry will be put on as soon as the slip is for the reconstruction of the car ferry slip sland. The new slip, it is stated, will be head bridge to raise and lower the apron ac-Vancouver, Victoria and Eastern Ry. and Navigation Co.-Plans are being prepared built. (Jan., pg. 28.)

2.r

thrang 1914

3

1

r

S

### Great Northern Railway Lines in Canada.

Projected lines in Alberta.—Engineers connected with the G.N.R., or some of its associated companies, are reported to be engaged in locating a route for a line from Sweet Grass, Mont., through Taber, and the surrounding coal mining district of Alberta.

G.N.R. interests are reported to have purchased 25 acres of land in the vicinity of Calgary, Alta., and press reports state that

it is for terminal purposes.

Vancouver, Victoria and Eastern Ry. and Navigation Co.—Plans are being prepared for the reconstruction of the car ferry slip at New Westminster, B.C., from which the car ferries operate to Sidney, Vancouver Island. The new slip, it is stated, will be 400 ft. long, three tracks wide, with an overhead bridge to raise and lower the apron according to the state of the tide. A new car ferry will be put on as soon as the slip is built. (Jan., pg. 28.)

m d

Great Northern Railway Lines in Canada

Sweet Grass, Mont., through Taber, and the connected with the G.N.R., or some of its associated companies, are reported to be Projected lines in Alberta.—Engineers engaged in locating a route for a line from surrounding coal mining district of

chased 25 acres of land in the vicinity of Calgary, Alta., and press reports state that G.N.R. interests are reported to have purit is for terminal purposes.

car ferries operate to Sidney, Vancouver cording to the state of the tide. A new car for the reconstruction of the car ferry slip at New Westminster, B.C., from which the sland. The new slip, it is stated, will be 400 ft. long, three tracks wide, with an overferry will be put on as soon as the slip is head bridge to raise and lower the apron ac-Vancouver, Victoria and Eastern Ry. and Navigation Co.-Plans are being prepared built. (Jan., pg. 28.)

topurery 1914

.

in Si

7

1

r

### Great Northern Railway Lines in Canada.

Projected lines in Alberta.—Engineers connected with the G.N.R., or some of its associated companies, are reported to be engaged in locating a route for a line from Sweet Grass, Mont., through Taber, and the surrounding coal mining district of Alberta.

G.N.R. interests are reported to have purchased 25 acres of land in the vicinity of Calgary, Alta., and press reports state that

it is for terminal purposes.

Vancouver, Victoria and Eastern Ry. and Navigation Co.—Plans are being prepared for the reconstruction of the car ferry slip at New Westminster. B.C., from which the car ferries operate to Sidney, Vancouver Island. The new slip, it is stated, will be 400 ft. long, three tracks wide, with an overhead bridge to raise and lower the apron according to the state of the tide. A new car ferry will be put on as soon as the slip is built. (Jan., pg. 28.)

February 1914

SULLEI able to ting in ig the ed serade use

stion, in of the at time. cted to ation as ct of an racks as standing that the effective. E-2646. )nt., and tht tariff witching s on carfrom stag, among ff states switch-11 not be louses or elivery of s or pubis on the switching ates just overs the leals with rges, and s at juncare team

ing moveerly issued 10t, under raffic proese tariffs riffs. as I per notice As the mean that tolls, the cannot be oublication.

### Great Northern Railway Lines in Canada.

Great Northern Ry.-Midland Midland Ry.—The Winnipeg Board of Control decided May 12 to apply to the Board of Railway Commissioners for an order directing the lines used by these companies on Portage Ave. to be elevated. This decision was arrived at upon a report of the City Engineer as to the cost of a subway.

Vancouver, Victoria and Eastern Ry. and Co.—J. H. Kennedy, Navigation Engineer, returned to Vancouver, recently, from a trip of inspection over the section under construction. The section from Coalmount to the junction with the Kettle Valley Line, near Otter Creek Summit is well advanced. This section, together with the section from Princeton to Coalmount, is to be utilized jointly with the K. V. Lines, under the agreement ratified last session of the British Columbia Legislature. The section of the K. V. Lines in construction of the above, to Hope; under consideration by that company is to be used jointly with the V. V. and E. Ry.

Vancouver Terminals.—L. W. Hill, President, G. N. R., is reported to have stated recently that the company's appropriations for this year include over \$1,000,000 for the laying out of the terminals at False Creek, Vancouver, and for the building of the If the city insisted on the station there. immediate construction of the four east end viaducts, which would mean an expenditure by the company of \$450,000, it would cut heavily into the appropriation. He did not think that the viaducts were necessary, however desirable they might have been at the time the new docks were being built and the tracks were crowded with con-Apart from that traffic, struction traffic. which had ceased, the regular traffic was not so great as it was. Mr. Hill subsequently had a conference with the Mayor and the city officials on the matter. It is JUNE said that an understanding had been arrived at and that the Union Construction Co., to which the city had let the contract, will go on with the work at once.

Valley Line, near Otter Creek Summit is well advanced. This section, together with the section from Princeton to Coalmount, is to be utilized jointly with the K. V. Lines, under the agreement ratified last session of the British Columbia Legislature. The section of the K. V. Lines in construction of the above, to Hope; under consideration by that company is to be used jointly with the V. V. and E. Ry.

Vancouver Terminals.—L. W. Hill, President, G. N. R., is reported to have stated recently that the company's appropriations for this year include over \$1,000,000 for the laying out of the terminals at False Creek, Vancouver, and for the building of the

station there. If the city insisted on the immediate construction of the four east end viaducts, which would mean an expenditure by the company of \$450,000, it would cut heavily into the appropriation. He did not think that the viaducts were necessary, however desirable they might have been at the time the new docks were being built and the tracks were crowded with con-

struction traffic. Apart from that traffic, which had ceased, the regular traffic was not so great as it was. Mr. Hill subse-

quently had a conference with the Mayor and the city officials on the matter. It is

said that an understanding had been arrived at and that the Union Construction Co.,

to which the city had let the contract, will

go on with the work at once.

l,

\$. ·

d

7.

A recent press report stated that the estimated cost of the projected tunnel from Burrard Inlet to False Creek, which would have a length of 3,790 ft., would be \$628,970. We were officially advised, May 12, that the company has no intention to build any tunnel at that point. (April, pg. 174.)

Telephone Train Dispatching in Canada.—

June

1914

### ic. Great Northern Railway Lines in Canada.

reconing uncars. to with possesobtains ends at build a

Creek, ur, was ruction, eek and inch. started July 15. Canora

eted and

to have C.P.R., of way, Sask., the line of the ears. Impany's for the from Al-y line, e Hanna-

arrangehich the over the 1 Strathfor run-1e C.N.R.

ty.—Steel quantities forward.

Midland Ry. of Manitoba.—An order has been made by the Manitoba Public Utilities Commission for the building of a spur track near Sherbrooke St., between Ross and Elgin Avenues, Winnipeg, at the company's cost. The building of this line was one of the conditions upon which the city agreed to permit the laying out of the company's terminals. Owing to its failure to do the work the city applied for an order to compel the company to carry out its agreement.

Vancouver, Victoria and Eastern Ry.—A. H. Hogeland, Chief Engineer, G.N. Ry., recently completed a visit of inspection over the sections of the line under construction. These include the sections to be jointly used with the Kettle Valley Lines, one of which is owned by this company, and the other by the K. V. L.

Arrangements are being made for the erection of the new station near the New Westminster end of the Fraser River bridge. A lease for the station site is being secured from the B. C. Government.

Vancouver Terminals.—The bridge at Broadway, Vancouver, has been opened for traffic. It is 288 ft. long and 70 ft. wide, and is fitted with car tracks, in anticipation of the extension across it of the British Columbia Electric Ry. lines. The erection of the bridge eliminates a level crossing.

Construction of the viaduct over the Grandview cut at Victoria Drive is also being proceeded with. These two bridges form part of the works undertaken by the company in rearranging and extending its lines in Vancouver, necessitated by the laying out of the new terminals at False Creek. J. M. Gruber, Vice President G. N. R., and other officers, paid a visit to Vancouver, July 10, and looked over the work in progress. He is reported to have said that the company's plans for the development

August 1914 r Con-

Enginmittee
resent
he Soleation
comFrancis

ie comα., 1914, n given certain the sovarious ially rend many d discusc part in In all. ed 30.000 ied from as "utter was traner of the

the comtime in might be action in series of mal meet Construc-M. Morsties, very

Commission, Montreal; C. M. Morssen, Conulting Engineer and President Atlas Construction Co., Montreal; P. B. Motley, Chief Struction Co., Montreal; P. B. Motley, Chief Bridge Engineer, C.P.R., Montreal, and H. Golph, Secretary, John S. Metcalf Co., Montreal. While some have been unable to attend all the meetings for various good easons, a number have not missed a single neeting during the two years the Committee has been in existence.

### Great Northern Railway Lines in Canada.

Vancouver, Victoria and Eastern Ry, and Navigation Co.—The Board of Raffway Commissioners has rescinded its order requiring the company to build overhead crossings at Pender, Keefer and Harris Streets, Vancouver, but reserving the rights of any person to apply to have the crossings suitably protected with signs, etc. This was the order against which the British Columbia Electric Ry successfully appealed to the imperial Privy Council, that company having been directed to pay a portion of the cost of the bridges named.

Vancouver Terminals.—Plans have been filed with the Vancouver City Council for the bridges across the Grand View cut at Clarke Drive and Woodland Drive, and also for the approaches. According to the agreement with the city, the first bridge has to be completed by April 1, and the second by Sept. 1 (Jan., pg. 14.)

Corrections for the Erring.

February 1915

k

n

0-

d

10

50

d.

H-

he is-

Te.

156

Bar

me,

his

cial ivi-

on

een

unt.

75.00

59.54

00.00

### Great Northern Railway Lines in Canada.

Vancouver Terminals.—The Vancouver City Council was informed, Feb. 25, that the Civil Council was informed, Feb. 25, that the Civil Council was informed for the B.C. Government in connection with the plans for the development of the Palse Creek terminals, and that full plans would be submitted with these. The agreement is one to which the Provincial Government is a party, and the company cannot do anything definite until the province is satisfied. The company, it was stated, means business, and will go sheed with the work as soon as possible. The building of the station will involve the expenditure of \$1,000,000 instead of the \$500,000 originally suggested.

The question of the building of the three, east end viaducts, which formed the subject of littigation at the invitation of the British Columbia Electric Ry., has been revived, and it is said that a plan is being arranged for the work to be financed. If the arrangements carry, the G.N.R. will have to apply to the Board of Railway Commissioners for the necessary order. The viaducts, which were eliminated from the order as a result of the litigation, are projected at Pender, Keefer and Herris Sts., and are estimated to cost \$67,250, \$66,723 and \$70,413 respectively. The fourth visduct is at Hastings St., and is estimated to cost \$95,444.. The contract for the erection of the four via-

72.84 307.88

April 1915 York Central Rd., and extend to Sunder, One. (Mar., Dg. 94.)

جُحْ

(O)

J.W. 1 Co. For muning rights over the latter com-to exter into agreements with the Great Victoria and Eastern Ey. and Navisation -The Dominion Parliament is being asked SOUTH ON THE PIE . VA. TROUBLE Northern Pacific and British Columbia Ry. having power with the Northern Pacific Ry., 8 2 8 A à Ġ

S

cut stone, and Will have a liat 1001. HCID e of s en= Great Northern Railway Lines in Canada. truchich Vancouver, Victoria and Eastern Ry. and Ing., Navigation Co.—The Board of Railway Comalso missioners has authorized a connection with more the C. P. R. near Granby Smelter, B. C.; and affic. also with the Kettle Valley Ry., at Brookst of mere, B.C. , \$2,-Vancouver Terminals.—The Board of Railnginway Commissioners, June 2, authorized a .339,change in the location of the projected sta-5,900. tion building at False Creek, Vancouver, tions from the Prior St.-Park Lane section of the on of property, to next the property line of the reets. Canadian Northern Pacific Ry., and directed Comthat work is to be commenced at the expira-G. R. tion of six months from the date of the order, erest and completed by June 1, 1917. The Filling-in work on the False Creek flats is h in-

to.

union o for adian Filling-in work on the False Creek hats is still being proceeded with, the City Engineer estimating that 800,000 cubic yards of material are still required on the company's property. The question whether the station to be built will be a union station with the Canadian Northern Pacific Ry., or an entirely separate building though adjacent thereto, is not yet decided. (June, pg. 225.)

JULY 1915

Med

### Cars Great Northern Railway Lines in Canada.

, N. B. aforcumple shops upper entre body uffing o the sills. t arm in the ted on raught 2 ins. raught etween ice beart of f Rail-¿ Comirts of d from andard ictured

Vancouver Terminals.—Under the original order the company was to complete the extension of its station on the False Creek property, Vancouver, at the corner of Prior St. and Park Lane by March, 1916. company failed to file plans for the building and there were negotiations for a two years' extension on the part of the company, while the city proposed appealing to the Board of Railway Commissioners for an order compelling the immediate filing of plans. Ultimately the matter came before the Board upon an application of the coma change of location station. The city did not offer any serious objection to the change, which would bring it alongside the proposed Canadian Northern Ry. station, so long as steps were being taken to go ahead with the building. In the evidence given it was stated that the company had about 800,000 cubic yards of filling yet to do on its portion of the flats which were being reclaimed. The order of the Board approves of the new location; preliminary submission of the sketches of the layout of the station and tracks at once; the filing of complete plans to follow in order; the letting of contracts for the building within six months from the date of order, and the completion of the whole work by June 1, 1917. The filling

ollows:
l body
le ma-

August

1915

On the

now the Vice Suits Respecting the Building of the Great Northern Railway of Canada.

narge ment your also ment ile to enger ue as your ect to

gram ng if ihead ation.

ild be Northcrossed to inci-

tives. to be verbal at the zh the i, who at the that it nother n was uld be nadian ervice; ked to ke the

upplied rice ree work les, not ds and l illumip chim-

t what

Board

vments

ould be

Judgment has been reserved by the Quebec Appeal Court in the action of Smith, Barry and McRae against John Hyde, liquidator of the Great Northern Construc-The plaintiffs built 88 miles of this line easterly from Hawkesbury, Ont., towards Joliette, Que., on which they claimed there was a balance of about \$200,000 due. In Nov., 1914, the courts awarded them \$63,886. Against this decision both parties appealed, and the Appeal Court after hear-

ing arguments reserved judgment.

An action is before the Quebec Supreme Court, in which John Hyde, liquidator of the Great Northern Construction Co., is the plaintiff, and J.G.Scott is the defendant. This is a test case, several other actions of a similar character having been entered. The plaintiff company was formed in West Virginia, for the purpose of constructing a railway in extension of the old Laurentian Ry. from near Joliette, Que., to Hawkesbury, Ont. The contract was entered into with the Great Northern Ry. in May, 1899, and subsequently a contract was entered into by the construction company, by which Smith, Barry and McRae were to build the line. The construction company received cash, bonds and stock from the railway company, and after having paid considerable sums to the actual builders of the line, distributed the balance among its shareholders. The actual builders claimed further sums, and the construction company having no funds, went into liquidation. The liquidator claims that the shareholders of the construction company wrongfully received the railway company's bonds, and now seeks to recover them. The face value of the bonds in the case against J.G.Scott. is \$6,000.

The line in question now forms part of the

Canadian Northern Ry. System.

1915

### Construction, Betterments, Etc.

: comhave r conbeen int of

Great Northern Ry. (U.S.A.)—During the year ended June 30, there has been constructed at the Winnipeg terminal of the Midland Ry. of Manitoba (one of the G.N.R. controlled lines in Canada), a five unit fruit warehouse, each unit being 67 x 80 ft.; a loading platform 10 x 40 ft., and there have additional industrial laid various tracks with a total length of 1.13 miles.

cted at iver is onsists of conper. A of the ed on s Chief

Alderman Gale was informed at the Vancouver City Council Railways Committee meeting, Nov. 4, that nothing had been done in the way of preparing plans for the station, as directed by the Board of Railway Commissioners, except so far as preliminary strides were concerned. The committee decided to wait until Dec. 1 before taking any further action. (Oct., pg. 392.)

3 Manieard of should om Pas orthern

The designs for the new passenger station for the G.N.R. and the Northern Pacific Ry., were submitted to the Vancouver city council, Nov. 7, and approved. The plans were prepared by F. L. Townley, and show an L shaped building, having a frontage of 228 ft.

Columed Spirit mpleted, iis year. completon Park Lane, with a depth of 60 ft., while the L will be 40 x 130 ft. The building will be of reinforced concrete on pile foundations, faced with a granite base and terra cotta brick. The front portion of the building will consist of a main waiting room 60 x 100 ft., flanked by two wings two storeys high. In the lower portion of these wings will be waiting, immigration, telegraph, telephone and stationmaster's offices, and a large exhibition room. The operating and traffic staffs will be accommodated in the upper storeys, the G.N.R. occupying one NDR the other. In the L

ners has over the has been e bridge. 1,100 ft., each, six ugh span eel is exnd to be olum-Spirit leted, year. mplet-

rs has
er the
s been
bridge,
00 ft.,
ch, six
h span
l is exto be

d with sturned tion of branch. grading apleted, g strips between at grad-Dec. 1. id until gary, 13 437.)

d Son's
the Godextension
n Chemi-

. (Nov.,

nd. Ont.,

sion for

Vest Es-

Board of oved refrom Bigough the range 17, brance is erna, 105

cil, Nov. 7, and approved. The plans .... prepared by F. L. Townley, and show an L shaped building, having a frontage of 228 ft. on Park Lane, with a depth of 60 ft., while the L will be 40 x 130 ft. The building will be of reinforced concrete on pile foundations, faced with a granite base and terra cotta brick. The front portion of the building will consist of a main waiting room 60 x 100 ft., flanked by two wings two storeys high. In the lower portion of these wings will be waiting, immigration, telegraph, telephone and stationmaster's offices, and a The operating and large exhibition room. traffic staffs will be accommodated in the upper storeys, the G.N.R. occupying one wing and the N.P.R. the other. In the L there will be baggage, express and mail rooms, and on the east side running the whole length of the building there will be a concourse 28 ft. wide, with glass roof, giving access to 11 sets of tracks, each of which will have an umbrella connecting with the roof of the concourse. A private road will run by the side of the L for the baggage and express traffic, and another road will give access to the waiting room. There will be two entrances to the front of the building. The building will be erected on part of the reclaimed False Creek flats.

The detail plans are in course of preparation, and it is reported that contracts for the erection of the building will be placed at an early date.

The plans were given consideration by the Vancouver City Council's bridges and railway committee, Nov. 11, and approved, the committee asking the company to let the contracts at once, and to set back the main front 100 ft. back from the Park Lane street line. The city council had the plans before it, Nov. 15, but declined to take any action beyond deciding to forward copies of the plans to the Board of Railway Commissioners and to the Provincial Government, and concurring in the resolution of the bridges and railway committee to have the

December 1911

whole length of the building there will concourse 28 ft. wide, with glass roof, givh. ing access to 11 sets of tracks, each of which 18 will have an umbrella connecting with the d. roof of the concourse. A private road will DS run by the side of the L for the baggage en and express traffic, and another road will idgive access to the waiting room. There will 1. be two entrances to the front of the buildtil ing. The building will be erected on 13 part of the reclaimed False Creek flats. nt.,

for

Esn's

-bod

ion

mi-

ov.,

of

re-

Big-

the

17.

e is

105

rised

ll be en-

must

P.R.

Rv.,

the

Par-

: the

Kit!

leton

thern

in or

rly to

onton,

The detail plans are in course of preparation, and it is reported that contracts for the erection of the building will be placed at an early date.

The plans were given consideration by the Vancouver City Council's bridges and railway committee, Nov. 11, and approved, the committee asking the company to let the contracts at once, and to set back the main front 100 ft. back from the Park Lane street line. The city council had the plans before it, Nov. 15, but declined to take any action beyond deciding to forward copies of the plans to the Board of Railway Commissioners and to the Provincial Government, and concurring in the resolution of the bridges and railway committee to have the building set back 100 ft. from the Park Street line, so as to make it conform with the Canadian Northern Pacific Ry. proposals.

A. H. McNeill, K.C., counsel for the company, submitted the following statement regarding the sums the company proposed to expend as estimated by F. L. Townley, the architect: Foundations, pile and concrete, \$30,000; station building, \$268,699; heating, \$25,000; boiler house, \$10,000; pipe tunnel, \$5,000; marquise and concourse, \$15,000; umbrella shed and platforms, \$42,000, architect's fees, superintendence and incidentals, \$25,000; making a total of \$421,000. To this must be added the cost of paving the drivemust be added the cost of paving the drivemust, \$12,000; tracks, including switches,

December 1915 December 1915

\$25,000; engineering, superintendence, administration, etc., \$24,000; a grand total of \$716,000. Freight sheds would cost an additional \$100,000; team tracks, another \$100,-000; and additional tracks and switches, to These \$44,000; commissary and car supply building, \$15,000; filling, \$175,000; engine house, make up eleven in all, \$105,000. sums total \$1,021,200.

of Railway Commissioners before anything We were officially advised, Nov. 18, that the plans have to be approved by the Board further can be done. (Oct., pg. 392.)

Greater Winnipeg Water District Ry.-A donin Winnings

### GREAT NORTHERN RAILWAY

### C. RIFF

Hagdalene River Valley Ry.—In order the Magdalene River Valley Ry.—In order the Stadien.

Magdalene River Valley Ry.—In order gradien:

to allow of the reduction of the gradient on the location of the present projected be line of this railway on lot 37 of 34 Maxime du Mont Louis, the Quebec Legisla-ture is being asked to authorize a change vi of location on about 4,500 ft, of which till Scieniory, northly to a location at least in Seigniory, northly to a location at least in 350 ft, from the east bank of the Mag.

Seigniory, northly to a location at least in 550 ft, from the east bank of the Mag.

19294 M

Northern Ry. passenger station will be used, but the N.P. Ry. will provide its to make this connection, and the Great Rr. tracks from Cloverdale. The section of from Sumas to Cloverdale will be rebuilt the old New Westminster Southern Ry. within a year, over the Great Northern the city Second Vice President, accompanied by a number of officials paid a visit to Vanported to have stated that the company Northern Pacific Ry.-J. M. Hannaford, conver recently. In an interview he is rewill be running its trains into ther on. (Oct., 1912, pg. 502.) own freight terminals.

#8

the Kitsilano Indian Reserve, which adthe Canadian Northern Ry. for their terpany was negotiating for the purchase of joins the False Creek area, which is being laid out by the Great Northern Ry. and It was reported recently that the comminals. (April, pg. 169.)

-- Dears Diver Rv -- The Domin-

Ry, has been built and is being operated. (Aug. pg. 412.)

Northern Pacific Ry.—President Elliott is reported as stating, Sept. 5, that the line from Seattle, Wash., to Sumas, on the International boundary, 120 miles, will be rebuilt next year, with reduced gradients and easier curves, and that it will be relaid with heavier steel.

Pacific Great Eastern Ry.—A commission has been appointed to settle the question of the route of the line in West Vancouver, B.C. The company has located its line along the waterfront for 2.5 miles, and the municipality desires that it be set back for from 100 to 250 ft. Application has been made to the Provincial Minister of Railways for the approval of the route of the line from Howe sound to Pemberton Meadow, 10 miles, but objection is made by the nowe Sound and Northern Ry., which has a line between the same points. Consideration of the matter was adjourned.

bety Mor will a s beei com pect bγ  ${f T}$ Gen stat app Rai pell "W ing mat the ent ing the the reac

Oddar 1912

hadasca.

Ontario

Burwell will be extended from Ayimer to St. Thomas and connected there with the L. and P. S. Ry. (Aug., pg. 415. See Erie, London and Tilisonburg Ry.)

nents,

### The Fraser River Bridge.

ilic Sernas apra new Rd., at ements, by the ns proand for

Applica-Harbor any for freight nises by ers are with a so as to the land mes St.,

fontreal preparamediate louse on from St.

a con-Metcalf of a 27r . with r supply comotive ick coni roof. has been ll within

has been II within and build of other 50,000, in ment of of a sub-i of these tate the ad it was i the object of the intreal to a Brock-ile Pres-Montreal

the work ist of the d, with necessary

Toronto t. of land a station red, Chief that the been apstarted at leted this

There is are of the Ry. has ill by the accting of lisonburg, instead of c. Scott is

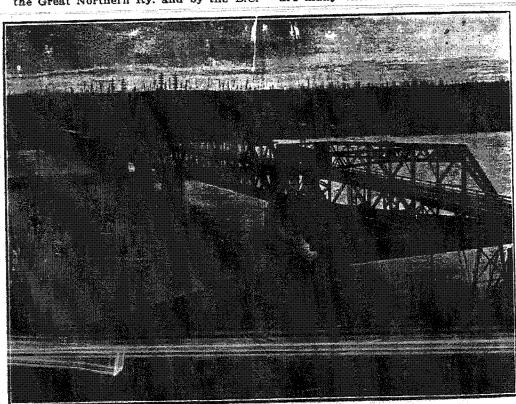
line from

The British Columbia Government's bridge over the Fraser River at New Westminster, an illustration of which is given on this page, and which cost about \$1,000,000, is a very interesting structure. It is 11,985 ft. long including approaches, and is double decked, the lower road being utilized for railways, and the upper for pedestrian and vehicular traffic. It is built on 17 piers, 11 pedestals and 3 abutments, with a centre span opening for the passage of vessels; the pivot pier of the swing span is carried 90 ft. into the river bed; the deepest pler is 141 ft. below high water mark-made up of 69 ft. below the bed of the Fraser and a volume of water 72 ft. in depth. The power for opening the swing bridge is supplied by the B.C. Electric Ry. Co. The lower part of the bridge is being used by the Great Northern Ry. and by the B.C.

same time it is not aconomical unless the work is sufficient to justify its being occupied.

The tools used in locomotive building can, no doubt, be advantageously employed in repair work, except in the case of special tools which cannot be sufficiently employed in repair work to justify their installation, but could be used to a sufficient extent in building locomotives to expect them to assist in reducing the cost of the locomotive repair output. All the machine tools employed in locomotive building are in addition to those used for turning out a given number of repairs and must be regarded as an additional investment.

The size of shop necessary to accommodate these tools, blacksmith shop, foundry, and other equipment required to construct new locomotives is all, practically speaking, in addition to that required for a repair output. It is therefore entirely unreasonable for a road to consider that because it can turn out locomotives at a cost less than it can obtain them from the builders that it can neglect the additional investment. There are many cases where locomotives have



The British Columbia Government Bridge over the Fraser River.

Electric Ry. Co, on an annual rental basis. The transmission lines for supplying power for the operation of the B.C. Electric Ry.'s Fraser Valley branch are carried over the bridge on towers at a height of 165 ft. above high water.

The Consolidated Engineering Co., Ltd., has been incorporated under the Dominion Companies Act, with \$100,000 capital, and office at Montreal, to carry on a general railway and other construction business. The incorporators are; S. G. Dixon, J. M. Montle, R. E. Allan, V. and C. T. Jette, Montreal.

been turned out without adding anything like a sufficient amount to the actual cost of material and applied labor to cover the necessary expenses in connection with the operation of the plant, to say nothing of the interest and depreciation on the investment involved. Such items as repairs to tools and machinery, maintenance of buildings, supervision, drawing office expenses and a number of charges which have to be taken care of by every concern, are ignored in the case of railways building their own locemetives.

I do not believe there is a railway shop

Ikrent 1912 the company respecting the use of a spur line to convey sand and gravel under the Highways Improvement Act; and to permit the council to enter into similar agreements with other railways under the same act. (April, pg. 136.)

The Northern Pacific Ry. is about to erect a freight house on its wharf on the Fraser River, opposite the city market, near the intersection of Front and 6th St., New Westminster, B.C. The building will be reached by a new spur track, starting from opposite 6th St. The top of the present wharf will be cut down about 2 ft, for a considerable area and new timbers will be put in to carry the foundation members of the new structure. The building will be a one story lumber structure, 50 x 200 ft., the exterior walls of which will be covered with corrugated iron, and the roof with pitch and gravel. The rolling doors will be of corrugated A space 20 ft. deep, the whole width of the building, 50 ft., will be partitioned off at one end, for an office. This space will be ceiled throughout with fir ceiling, and will be lighted by 10 win-One half of the area will be reserved for the public offices and the other for the inside staff. Two lavatories will be provided, one for office staff and the other for freight house employes. building will be lighted by electricity and heated by stoves. The estimated cost is (Mar., pg. 101.) \$11,500.

Pacific Great Eastern Ry. — At the British Columbia Legislature's 1916 session provision was made for the raising

and i Gover Ry. b tion i has j

The incort with amon a rai take rights which is also on the of De River on th Villag bute ( limits Three Count within steam water trumv ard i C.P.R any c counti

Sas It ha Saska railwa bound of Wa

MAY

1917

### DICCICU LINCO, DUI TEJO, CUROM

Great Northern Ry .- The new union station on the False Creek flats, Vancouver, erected by the G.N.R. for use jointly with the Northern Pacific Ry., was opened for public use, June 1. The first train into the station carried officials of the companies and other railway visitors. During the afternoon the general public were admitted to inspect the building. The first train out, which carried the railway officials, left at 4 p.m., and was followed by the first G.N.R. train at 7.30 The Northern Pacific Ry. instituted its service a few days later. The station is at present being used also by the Canadian Northern Ry., which obtains its entrance into Vancouver over the G.N.R. line, but which is building its own station.

Vancouver City Council has issued permits for the erection of the following additional terminal buildings on the False Creek site: Car repair shop, 20 x 60 ft.; coal house, 20 x 40 ft.; car carpet cleaning house, 16 x 60 ft. Grant, Smith & MacDonnell have the contract. (June, pg. 224.)

3

July 1917

R

M

bi

M

cl

u

12

li T

W

2

S

p

b

Ţ

T 1

i

C

that askacarly

stall Weyearly arn is

eneral
ted to
te disetiawhave
ion in
. 138.)
New
ked to
from
nental
John
garea.

Grand
Spirit
s, was
was a
d. W.
Chief
ed that
pletion,
direcMcLens early
L)

y.—The rated a railway to the rected in lopment standing respect-horizing act with the rate-iderable

at the next sitting in Moose Jaw. (many

Great Northern Ry.—A press report states that it is proposed to start construction at an early date on a line 14 miles long to connect the present Clover-dale-Abbotsford line with the Canadian Northern Pacific Ry. at Sam's Landing, B.C.

The building line for the station building on the False Creek site, 375 ft. east of Main St., has been finally approved by the Vancouver City Council. question of the cost of the station building, which has been raised by the B.C. Government, the Council decided, was not one with which it had to do. A contract for the erection of the station is reported to have been let to Grant, Smith & Mc-Donnell, who will start work at once. F. L. Townley, Vancouver, is the architect in charge. The plans provide for a structure of two units, a main building with terminal facilities on the main floor, and office accommodation above, and an L wing containing the baggage, mail and The building express offices and rooms. will be of brick with terra cotta trim-The main structure will be 235 x 60 ft., and the L will be 130 x 421/2 ft. There will be a glass covered concourse leading to 11 sets of tracks, and in the centre of the main building will be a domed waiting room which will reach up above the roof of the two storied wings. The open space to Main St., 375 ft., will be laid out in grass and shrubberies.

Application is being made to the Board of Railway Commissioners for approval of an agreement dated Nov. 6, 1915, whereby the Victoria, Vancouver & Eastern Ry & Navigation Co. grants the Canadian Northern Pacific Ry. joint and equal use in common, of the main and passenger tracks (subject to certain reservations), and the train, standing and industrial spurs, from the north approach of the Fraser River bridge at New Westminster, to the junction of the two companies tracks at the east boundary of the

from J and th and fr (Feb.,

Kett Parliai the tir ber of agreen toria ( respec der ti July 1 constr of the Prince. switch and tof the ment consti what sectio is en C.P.R Co., (Feb. La

> Ther Legis renev the c chase as T chap the had i its r Rock enta righ. ber i area velo befo befo men risk wou ther

MAY 1916 Ave., across its Weyburn Branch. (Feb.,

the pg. 49.)

**288**0

de-

3b..

RON

on

in

m -

ex-

an.

10,-

vay

ζes,

had

hes

ex-

378

had

sted

son

l be

ete.

ady

nent

ect.

tons

line

ora-

l by

hip-

Pas.

Great Northern Ry. Lines in Canada.— The Minister of Railways for British Columbia informed the G.N.R., Feb. 2, that the plans submitted for the new station on the False Creek flats, Vancouver, do not fulfil the requirements of the agreement. In an interview the Minister of Public Works is reported to have said: "No detailed plans have been submitted, but in the preliminary drawings our engineer has seen, it appears, that the value guaranteed by the G.N.R. is not there, and we are not going to pass the plans until the value mentioned in the agreement signed by the G.N.R. is shown. We certainly expect the G.N.R. to live up to its agreement and spend the \$500,000 agreed upon."

o. S. Bowen, of the G.N.R. engineering staff, was in Vancouver Feb. 1, and is reported to have said the contractors had been given plans for the foundation work of the new station, and were preparing to start work. The question of the new frontage was being considered, but no decision had yet been reached. The proposal is that the frontage be set 75 ft. further back from Main St. than the plans

showed. (Feb., pg. 49.)

High River, Saskatchewan & Hudson

### JAMES HILLGREAT NORTHERN RAILWAY.

### The Late James Jerome Hill.

)r

No.

Can.

rade n in

for

ents

iten-

orks

con-

con-

and.

been

mis-

Dav-

for

The death of J. J. Hill, at one time President, and later Chairman, Great Northern Ry., took place at St. Paul, Minn., May 29, too late for an announcement to be made in our June issue. He had been in indifferent health for some little time, but his death was not anticipated until within the last few days of the month.

He was born at Rockwood, near Guelph, Ont., Sept. 16, 1838, and attended school there until he was 14 years old, when his father died, and he worked at the village store. In 1856 he obtain work at St. Paul, Minn., as a shipping clerk, and in 1865 was appointed agent for the Northwestern Packet Co., at St. Paul, and two years later, local agent for the St. Paul & Pacific Ry., running a short line between St. Paul wharf and St. Anthony's Falls. During this period he began a friendship

tion Battalion, Canadian Expeditionary Forces.
oronto for recruiting for No. 1 Construction Battalion, which i.Can.Soc.C.E., until recently Engineer of Grade Superation, ich were given in Canadian Railway and Marine World for nto Ry., and was decorated by men of the battalion. Lieut. G., ger, Toronto Ry., is in charge of recruiting for the battalion.

of the , who rience

arines, and a my. been and later entered into partnership with Norman Kitson. who ran an ox wagon and sledge service to Winnipeg, and obtained practical knowledge of the conditions of the northwest on trips to and from Winnipeg. He also built up a business at St. Paul. supplying fuel to steamboats, and this developed into the firm of

considerable knowledge of the mineral resources of those regions. In the meantime some extensions had been made to the St. Paul & Pacific Ry., as far as the Red River, but owing to bad manage-ment, it deteriorated until in 1873 it became bankrupt. Again in conjunction with N. Kitson, he organized a syndicate to acquire the property, and through Donald A. Smith, then chief representative of the Hudson's Bay Co. at Winnipeg, later Lord Strathcona, enlisted the support of George Stephen, then President, Bank of Montreal, later Lord Mount Stephen, and purchased the property for about 40% of the par value of the out-standing securities. The company was standing securities. The company was reorganized in 1879 as the St. Paul, Minneapolis & Manitoba Ry. with George Stephen as President, and J. J. Hill as General Manager. In the late seventies the line was extended to the International Boundary at St. Vincent, Minn., where it connected with the line built from the other side of the boundary at Emerson Minn., to St. Boniface, opposite Winnipeg, by the Dominion Government and which was known as the Canadian Pacific Railway, Pembina Branch. In 1881 he became one of the members of the syndicate formed to take over from the Dominion Government the portions of the C.P.R. which were completed and under construction, and he was one of the first directors of the C.P.B. Co. Wm. C. Van Horne, afterwards Sir Wm. C. Van Horne, being selected as the first General Manager on his recommendation at the end of 1881. He only remained on the C.P.R. board for a comparatively short time, devoting his energies to the St. P.M. & M.R., and in 1882 he was elected its Vice President, and in 1883, President, when he relinquished his holdings in the C.P.R., and confined himself exclusively to the upbuilding of the system of railways now known as the Great Northern, and also becoming largely interested in the North-ern Pacific, and the Chicago, Burlington & Quincy. This, it is claimed, was accomplished without any Government aid in cash, and with only 3,675,000 acres of land as a grant. He retired as President, G.N.R. in 1907, and was for a short while Chairman of the Board.

Pullman Co.'s Profit Sharing Plan.—The directors have set aside 5,000 shares of stock, which will be sold to employes at \$155, which is about \$10 below current market price. The employes will make deferred payments, and only those who have been in the company's service over one year will be allowed to purchase. An employe will be allowed to purchase one share for each \$500 of his annual pay, or portion thereof, up to 25 shares for those having a salary of \$12,000. Payments will be at the rate of \$4 a month per share. Interest will also be paid on the deferred payments, at not more than 4%, and the purchaser will receive dividends from the date of his purchase.

Too Forcible Ejection From Train.

1916

were given in Canadian Railway and marine world for ky., and was decorated by men of the battalion. Lieut. G., Toronto Ry., is in charge of recruiting for the battalion.

and later entered into partnership with he Norman Kitson, who ran an ox wagon ho and sledge service to Winnipeg, and obice tained practical knowledge of the conditions of the northwest on trips to and es. from Winnipeg. He also built up a busia ness at St. Paul. supplying fuel to steamboats, and this developed into the firm of en Hill, Griggs & Co., and later, the Northain west Fuel Co., and in connection with lgthis business, he brought the first boat load of eastern coal to St. Paul from led Peoria, Ill., by way of the Illinois & hat Mississippi Rivers. In 1870, in partnerinv ship with N. Kitson, he organized the zth Red River Transportation Co., and built ons two vessels, which, in connection with the ete stage route, established the first through vill service between St. Paul and Winnipeg. While he was acting as railway agent, ach it was part of his duty to pilot the scienary and Alexander tists Louis ine through the Red River and Lake Superior mo districts, and while with them he gained

JULY 1916

nave

one

emp shar

port

havi

will

shal

defe

and

fron

The

juds

aga

deci

not

Das

plai

Sas

oth

pan

kno

off

a p

him

bee

T

## CANADIAN PACIFIC RAILWAY 1917 5750 CLASS DECAPOD ENGINES.

MARCH 1917

### Decapod Locomotives for Canadian Pacific Railway.

went the tender from sliding forward on dust. A safety clamp is carried to predust draught and keeps the cab free from on the cab roof, which stops the back ates the glare. A deflector is also located a deflector on the firedoor which eliminwhile the fireman's eyes are protected by flector is provided for the locomotive man dows are double sashed and a wind debegs tor the surplus clothing. The win-

18VO VAICTION TO A
Cylinders stabnilyO
Boiler pressure
Capacity
are as follows:
vice. The principal general dimensions
Angus shops, Montreal, for mountain ser-
building 25 decapod locomotives at its
Si World, is Stilway and Marine World, is
The C.P.R., as previously announced in
ai beannous visuoinors as a a a

<b>`</b>		

Railway.	Pacific	nsibans)	.9 yi30	mono. I	hagrand
					A CHARLES THE PARTY OF THE PART
					The state of the s

he same as used on locomotives with he engine to 16 % ft., which is practically This reduces the wheel space of lateral displacement may take place on ided with a flexible arrangement so that ain. The leading driving wheels are proxcellent lubrication and is easy to mainived, has been used because it ensures The Laird crosshead, an old type re-

Cemei HIRE TibesO TibesO dagraa Brass. assna Втаке Bolts. Bolts, Batter unuv shinA

.ylut iu co ДŲŧ ijajes *u*.picp saop dition of ne. and ii facilit tate ] attions Buunp sətid I Inox and si increas nu nos again reache with n umous pe nore Builliev statemi

outbres

with th

in səild

to trop

attentic

circular

ployes.

itwollot

Grand

E 1

TUCLE

nly one leading pair of driving wheels. to cab in case of a collision.

0	provisions
[] ~	e features
[]	Serbeater Co-
O.	200 imp. gal.
В	.lsg .qmi 000
Ä	210 tons
Λ	120 tons
3.7	suo1 06
( <del>)</del>	suoi 6.211
(A	.ni 83.
	ui 9 33 91
	13 22 ft
~ ^	WATT 11 6

about these locomotives is the One of the most noticeable Tender oli capacity Locomotive Sup Total weight, engine and tender

Total weight, engine and tender

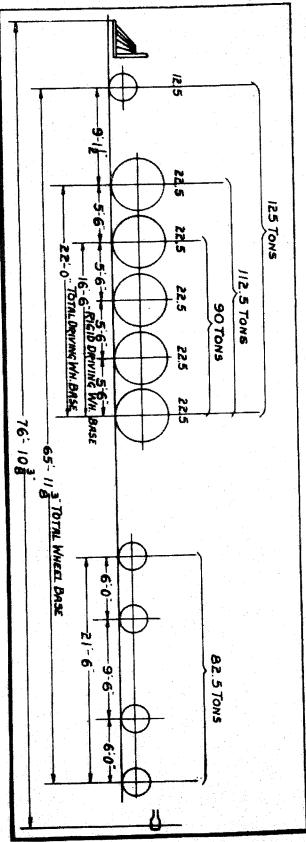
Tender water capacity Driving wheel base
Rigid driving wheel base
Diameter of drivers
Weight on drivers
Weight on rigid drivers .ni 211 .ft 58.... sasd lesel base land marien

about these locomotives is the provisions Superheater ..... Locomotive Superneater vo. One of the most noticeable features

the engine to 10.72 it., which is free with the same as used on locomotives with only one leading pair of driving wheels.

149 36

119



Decaped Locomotive, Canadian Pacific Railway.

and fireman. This is especially required on a mountain division on account of the having part of the insulation which covers the boiler in the cab made in sections are exceptionally well cushioned and a coat cupboard is provided with swinging severe climatic conditions which somefort and safety of the locomotive man which are made in the cab for the comventilated and is times prevail. The cab is roomy and well which can be easily removed. The seats heated in winter by weight.

A power reverse gear operated by air is also an improvement. The main object To accomplish this the leading side rods are articulated by means of a ball joint. achieved in the construction of these locomotives, is maximum power for minimum

a royalty basis. leased its Debert coal areas to another Nova Scotia concern for three years, on The Colchester Coal and Ry. Co. has

90	50			Glass
50	[			Gasoline
107	140			Fusees
5, 98 5, 98	90		hes	Frogs and switches
80	80		•	Files
1141/2	107	•	•	Ferrules, copper
117	80	:		Fence wire
52	71			2
1671/2	160	* * * * * * * * * * * * * * * * * * * *	<b>8</b>	Drills, high speed
89	80	•		
0	55			Draft gear
24	126	Ive	d locomotive	Couplers, car and
1143	107			Copper, ingot .
1541/2	147		.,	Copper, sheet
154 1/2	147			Copper, rod
122	30			Chain