THE NATIONAL TRANSCONTINENTAL RAILWAY

CANADIAN RAILWAY AND MARINE WORLD

C. H. RIFF

JULY 1905 - MARCH 1909

Transcontinental Railway Surveys.

The first report of the Transcontinental Railway Commission was presented to Parliament May 22. It confirms the favorable reports which have appeared from time to time as to the easy gradients obtainable and the character and resources of the country, not only between Moncton and Quebec, but westerly towards Winnipeg. It has not yet been ascertained whether a line north or south of Lake Abitibi would be more advantageous. The commissioners dissent from the idea that the Intercolonial Ry. could be used for the eastern section of the Were this done, they say, the country would be deprived of a more profitable line for freight, and much valuable country would be unopened. Chairman F. B. Wade summarizes the work already accomplished. He states that the commission has decided, subject to the approval of Parliament, to take over a portion of the survey work on the eastern division, performed by the G.T. Pacific Ry., for which \$289,863 will be paid. Although the G.T. Pacific management is strongly of opinion that it has secured the best possible line through the country east of Winnipeg, the commissioners decided it would not be advisable to take this for granted, and further explorations are ac cordingly being made. "We have reason," Mr. Wade says, "to hope for very substantial improvement upon the line obtained by the G.T. Pacific Ry., but it is too early yet to attempt to go into details." So far as could be learned the chief instru-

t

.5

11

ie

ik

1

to

10

rd

of

5.)

for

2111

le-

nd

be

ex-

mel

om

08...

mg,

ICK-

this

The

mis-

pro-, at

to

iles.

bal-

year

: 24

hus-

sec-

The

0 ft.

plate

irder

arder

rders

irders

irders

of six

o 100

wers;

les of eneral

ment men and other men on parties taken from the G.T.P. were mostly, if not all, The preliminary surveys in Canadians. districts A from Moneton to the boundary between New Brunswick and Quebec, and B from the boundary line between New Brunswick and Quebec to Clear Lake, have been completed, and the parties withdrawn from the field. The commission is now possessed of sufficient information to enable a decision to be arrived at as to whether the line via Fredericton and the St. John River valley or one across the centre of New Brunswick shall be adopted. As to whether the line should run north or south of Lake Abitibi in Ontario it will be some time before the commissioners will have sufficient data to make up their minds on the point. It is proposed to commence location surveys in districts A and B as soon as local conditions permit, and it is expected that surveys for this stretch, from Moncton to Clear Lake, in Quebec, as well as for F from Winnipeg to Lake Nepigon, will be completed, so that tenders may be invited in early autumn. As far as the commissioners are aware all their employes are British subjects, and with very few exceptions Canadian-born They are confident that there will be a full home supply of both skilled and common labor for all their purposes. They have laid

JUNY 1905

from the idea that the Intercolonial Ky. could be used for the eastern section of the line. Were this done, they say, the country would be deprived of a more profitable line for freight, and much valuable country would be unopened. Chairman F. B. Wade summarizes the work already accomplished. He states that the commission has decided, subject to the approval of Parliament, to take over a portion of the survey work on the eastern division, performed by the G.T. Pacific Ry., for which \$289,863 will be paid. Although the G.T. Pacific management is strongly of opinion that it has secured the best possible line through the country east of Winnipeg, the commissioners decided it would not be advisable to take this for granted, and further explorations are accordingly being made. "We have reason," Mr. Wade says, "to hope for very suh stantial improvement upon the line obtained by the G.T. Pacific Ry., but it is too early yet to attempt to go into details.' So far as could be learned the chief instrument men and other men on parties taken from the G.T.P. were mostly, if not all, The preliminary surveys in Canadians. districts A from Moneton to the boundary between New Brunswick and Quebec, and B from the boundary line between New Brunswick and Quebec to Clear Lake, have been completed, and the parties withdrawn The commission is now posfrom the field. sessed of sufficient information to enable a decision to be arrived at as to whether the line via Fredericton and the St. John River have valley or one across the centre of New Brunswick shall be adopted. As to whether the line should run north or south of Lake Abitibi balin Ontario it will be some time before the year commissioners will have sufficient data to s: 24 make up their minds on the point. It is Shusproposed to commence location surveys in n secdistricts A and B as soon as local conditions The

ut

.7

es

nt

be

21-

nk

d-

to

he un

ol. 15)

for

mor

rile-

and

be

-x9

ond

rom

ros...

ing,

ack-

this

-The

ums-

pro-

c, at

, to

niles.

60 ft.

plate

girder

girder

irders

grders

girders

of six

vo 100

owers:

iles of

general

rear-

proved Van-

and an of this ment will prevail. Speaking of Lake Abitibi region and the

permit, and it is expected that surveys for

this stretch, rom Moneton to Clear Lake,

in Quebec, as well as for F from Winnipeg

to Lake Nepigon, will be completed, so that

tenders may be invited in early autumn.

As far as the commissioners are aware all

their employes are British subjects, and

with very few exceptions Canadian-born.

They are confident that there will be a full

home supply of both skilled and common

labor for all their purposes. They have laid

down the rule that promotion must be made

on merit alone, and in the matter of merit

the judgment of engineers in their depart

extending west, the Chairman says it to we known to be most inviting. The between Clear Lake, in Quebec, and Mean, are most valuable, and should be tip by railway communication. ats to secure uniform specifications sistern and western divisions of the have been approved. It has been that there are almost insuperable difficulties in the way of constructnot line between Moncton and Levis, route, as the surveys show, runs all through valuable country, part of described and the remainder most the for settlement. The opening up tretch will be of great advantage country. The probable length of the cross-country route in New himswick is adopted, will be shorter than the LA R, but how much shorter the commK-on cannot say until location surveys are completed. Using the same gradients 1 C.R., a saving of at least 90 miles the over route. The same motive power that would haul 660 tons on the Intercoland would by the new line haul 1,260 tons gotte cast and 990 tons going west.

I king the workings of the two railways, and apposing that 10 daily freight trains the tim each way, in 313 working days on the ICR, there will be 4,131,660 pay tons of height carried, costing \$3,160,711. On the Transcontinental the same business would be done for \$1,782,518; in other words, the commissioners claim that the saving by means of the Transcontinental, with its lower gradients and curves, would be \$1,-137 192, which, capitalized at 4% per year, applit be equivalent to over \$30,000,000. throng the Transcontinental 10 fully loaded parties per day of its own, the saving capiwould represent \$54,000,000, and if the the gradients are increased to the I.C.R. standard of 1%, the distance will be reduced Transcontinental to 403 miles from Moneton to Levis. These calculations are all made on the line through the centre of New Brunswick. With the distance reduced 10 miles there will be a saving of \$448, 167 a year, as against the I.C.R., which, contalized, would represent \$13,723,438.

has been suggested that the I.C.R. the line, but the commissioners consider, information obtainable, if it were attended to lower the gradients of the I.C.R. the standards secured for the Transconnectal, the distance from Levis to Moncwould be increased by considerably over miles, and a large section of valuable mury left unopened. There are two buts on the stretch from Levis to Moncton in the stretch from Levis to Moncton

the latter. Bridges and curvatures on the back line are comparatively few and small in number. From Grand Falls to Quebec they are small in size and number.

District Engineer Doucet found that a first-class line could be had from the Quebec boundary near Edmundston to Quebec bridge, and from the latter westerly via Batiscan, La Tuque and St. Maurice Rivers to Waymantachane, a distance of 432 miles. In no case will the gradients on eastbound traffic exceed 4% and on westbound to with very few cases of the latter. The maximum curvatures of 6° will only be called into requisition in a few places. The average cost of this stretch from Edmundston to Waymantachane will not exceed \$30,000 a mile.

The distance from Moneton to St. Chrysostome is 4931 miles by the I.C.R. The distance between the same points by the Transcontinental is 504 miles. Final location surveys will, however, shorten this latter distance by 18 miles, making the disance from Moncton to St. Chrysostome 486 miles. The estimated shortening from preliminary surveys, using 1% gradients both ways, is 100 miles, which would make the distance 403 miles. The I.C.R. with 1% gradients can haul 22 cars, equal to 660 tons net pay load, whereas the Transcontinental could carry 42 cars eastbound, giving 1,260 tons net pay load, and westbound 33 ears, giving 990 tons net pay load.

Assistant Chief Engineer Butler gives the cost per ton on the respective lines as follows: I.C.R., Moncton to St. Chrysostome, 73c.; Transcontinental Ry., Moncton to St. Chrysostome, 59 7-10c., using a 1 % gradient, or 43c. using the minimum gradients obtainable.

Speaking of the region between Clear Lake, Quebec, and the Ontario boundary, Chief Engineer Lumsden says that the country is dotted with numerous lakes, the lands being timbered with spruce, cypress, birch, poplar, small tamarac and cedar. It will be some time before it can be decided whether the line north or south of Lake Abitibi will prove more advantageous. The reports so far indicate that the north line will be found more advantageous as to cost of construction, the nature of country traversed and its suitability for settlement. The country between Winnipeg and Lake Nepigon contains enough timber to supply the whole of this section, and, in addition, the branch to Lake Superior. It consists principally of rocky knolls intersected with numerous lakes. -Ottawa Correspondence Toronto Globe.

Grand Trunk Pacific Ry.

The Ontario Legislature at its recent ses-

served for basin for near the there will the river istikwia and pass and adjor docks for

While sketch, the struction William, or less of July, at some kind the time been materials for the transfer transfer the transfer tra

Plans terminal approve Canals. the sou be on papplicat Commis quired the app propert

Cana

The tleford from throug be ma

In c station that t Mr. P nipeg, questi been i been (In ex for lo tain hotel of No rights Arthu and (ings.

> Th has 1 000,0 unde Th Impe

trip

and apposing that 10 daily meight class are sun each way, in 313 working days on the ICR there will be 4,131,660 pay tons of treight carried, costing \$3,160,711. On the Transcontinental the same business would be done for \$1,782,518; in other words, the commissioners claim that the saving by means of the Transcontinental, with its lower gradients and curves, would be \$1,which, capitalized at 4% per year, waged be equivalent to over \$30,000,000. Chang the Transcontinental 10 fully loaded mans per day of its own, the saving capit dead would represent \$54,000,000, and if the the gradients are increased to the LCR. standard of 1%, the distance will be reduced on the Transcontinental to 403 miles from Moncton to Levis. These calculations are all made on the line through the centre of Yes Brunswick. With the distance reduced 103 miles there will be a saving of \$448, 977 a year, as against the I.C.R., which, equitalized, would represent \$13,723,438.

has been suggested that the I.C.R. heald be utilized for the eastern section the line, but the commissioners consider, from information obtainable, if it were atimplied to lower the gradients of the I.C.R. the standards secured for the Transconenental, the distance from Levis to Moncwould be increased by considerably over miles, and a large section of valuable country left unopened. There are two sats on the stretch from Levis to Moncton where it may be found desirable to put in iner grades of 1%. If this is decided on urther shortening of 25 miles can be

We cannot estimate accurately," says Wade, "the cost of the proposed line an Moncton to Chaudiere (Levis), but think will not exceed \$33,000 a mile, and we hope very considerably reduce this estimate. have expended up to the end of March 10,000, and we have liabilities of \$175,761. for the ensuing year we estimate that we will require sums of \$1,328,500 to carry on our work. We hope to be in a position to all for tenders early this autumn. In this ese we deem it desirable that \$3,000,000 hould be voted on account of possible payments to contractors."

Chief Engineer Lumsden reports that gradients of 4% eastbound and of 6% westbound with maximum curvatures of 4° are obtainable except in a few places, where 6° curves may be needed. In no case will the curvature be in excess of 6°. The river route is surveyed to measure 333 miles, whereas what is known as the back route is 316 miles, a distance of 17 miles in favor of

net pay load, whereas the Transcommentar could carry 42 cars eastbound, giving 1,260 tons net pay load, and westbound 33 cars,

giving 990 tons net pay load.

Assistant Chief Engineer Butler gives the cost per ton on the respective lines as follows: I.C.R., Moneton to St. Chrysostome, 73c.; Transcontinental Ry., Moneton to St. Chrysostome, 59 7-10c., using a 1% gradient, or 43c. using the minimum gradients obtáinable.

Speaking of the region between Clear Lake, Quebec, and the Ontario boundary, Chief Engineer Lumsden says that the country is dotted with numerous lakes, the lands being timbered with spruce, cypress, birch, poplar, small tamarac and cedar. It will be some time before it can be decided whether the line north or south of Lake Abitibi will prove more advantageous. The reports so far indicate that the north line will be found more advantageous as to cost of construction, the nature of country traversed and its suitability for settlement. The country between Winnipeg and Lake Nepigon contains enough timber to supply the whole of this section, and, in addition, the branch to Lake Superior. It consists principally of rocky knolls intersected with numerous lakes. —Ottawa Correspondence Toronto Globe.

Grand Trunk Pacific Ry.

The Ontario Legislature at its recent session passed an act declaring that the corporation of Fort William had power to enter into an agreement with the G.T Pacific Ry., respecting the location of the Lake Superior terminals of the company on Mission Island there, and to provide for the raising of \$300-000 by debentures, to provide for the payment of the bonus agreed upon. The act also declares that the 1,600 acres of the present Indian reserve on Mission Island, acquired for the terminals, and any other contiguous land acquired for the same purposes, shall form part of the town of Port William. The land mentioned will form the headquarters of the company on Lake Superior of the line to be constructed to connect with the Eastern Division from Moncton, N.B., to Winnipeg, to be constructed by the Transcontinental Railway Commissioners. According to a sketch map published by the Fort William Board of Trade, the terminals will extend from opposite the Canadian Northern Ry, coal docks on the Kaministikwia River to the lake front at the mouth of Mission River. The area in the bend of the Mission River will be re-

JULY 1905

Car

Th tlefor from throu be n In

stati that Mr. nine que: beer beer In (for tain hot of I

> ing 1 has 000 un

righ

Art

and

Im tri 44 VK

Da dr to WI

> TH 10

11

discontinental Rallway Report.

time issue we gave a brief advance of the interim report of the Trans of TRy. Commissioners, more extended to which will be of interest. The signed by F. B. Wade, Chahman, in May, shortly after the report had impleted, and whose place on the near has not yet been filled, C. A. the combined appointed acting Chahrand such time as the new member is

report deals with the work of tron in Sept., 1904, to Feb. 28, remainent offices for the Comance been obtained in the Corry Orrawa, at a rental of \$8,500 The Commissioners meet every is when a quorum of two is in town; the chief engineer. Il would meetings and takes a deliberations at matter considered was as to ik should be andertaken durhen approaching antenna and tr was decided that as the the Ry. Co. had had in hand cays from Winnipeg cust to be north of North Bay, and the prove desirable to purchase mer these surveys, it would to first direct attention to plache held parties along the line action to Lake Abirbi With the route across the province lumewick, as there was a great

throuseick, as there was a great is of opinion as to whether a line the centre of the province was ade at all, it was decided to run warre surveys from Moneton to fails by alternative routes, the abituman, Fredericton and the atthe St. John River to Grand and the other via or near Chiparett across country to Grand As there was also a diversity on as to whether the line further heald be beated by the St.

River and north of Lake of by the Mathawin River and to, both of these lines. It was

conclude to ascertain if a location could and from Lake Clear down the River tes to 81 Michael and on to Jodiette asset parties for the several districts the points manned, having been and and placed in the field, the work secreted throughout the fall and Subsequently additional parties were in the field between Lake Abutibi and

to engineering work," the report states, been carried on under the supervision within the Engineer. If D. Launsden, existees and navice we have had to surselves of in many other matters than

those strictly pertaining to engineering work, and which we have always found most valuable."

Early consideration was given to the desimbility of purchasing the surveys plans, etc., made by the G.T. Pacific Ry. Co., on the main line east of Winnipeg. It was deemed desirable that these should be secured as it would at once give the Contuitssion a mass of valuable information, and negotiations were opened with the G.T.P. Ry. Co., Nov. 26, 1904. The terms upon which the Contuitssioners proposed to take over the



AleCHER BAKER. Europe in Manager Canadian Pacific Railway.

surveys were: "(1) We propose to purchase the surveys of the G.T.b. cost of Winnipeg, other than those which have telestone to its proposed braich lines to Thunder Bay and North Bay; also its depots, eaches, tents, outlifs, provisions, instruments, etc. (2) We will pay for these their actual cost, allowing interest at the rate of P, from the time the bills are actually paid by the company. (3) The cost to be determined by accommants appointed by us, who will examine the books and can here under the supervision of our engineer. (1) All maps, plans, field books and other dara necomments with the said surveys to be handed over to us. (5) The

cost of the said surveys to be computed to Nov. 30, and all parties and materials in the field and elsewhere to be taken over by us on Dee 1. (6) The accounting to commence forthwith and to be pushed through as rapidly as possibles 17). If necessary, a portion of the payment to be deferred until after a further appropriation by parliament to the Commission, such deferred payment to bear interest at the rate of 41, 27. The offer was finally accepted Jan. 13, 1905, and special anditors were appointed to go over the books and accounts of expenditure made in connec-

tion with the surveys. The audit was made under the supervision of the Conmissioners' Assistant Engineer, M. J. Burler, who reported during its prog-ress, "that he considered that 4.5 of section 3 of the surveys was not within the zone of the explorations which would have been made by the Commission upon the main line, and it was agreed as a result that the Commission would take over the caches, equipment and outlits in connection with said sec-tion 3 and payfor 1-5 of the surveys made upon it, which would cover the portion which was reasonably within the zone of our explorations. The Com-missioners agreed that if their chief engineer, after additional explorations, was of the opinion that any greater portion of section 3 was within the zone which would have been explored by the Commission, the difference would be added to the amount that we would pay. The amount arrived at as the cost of these surveys, including the supplies on hand, and 1-5 of section 3. is \$289,863.67, including interest up to Nov. 30, 1904. The total cost to the company of the surveys upon the main line east of Winnipeg, including the whole of section 3, was \$318,308.24, including interest from the date of pay ment to Nov. 30, 1901." The reasonthe Commission agreed to take over the caches and supplies on the remaining 4-5ths of section 3, was because it was desirable to have the supplies in that part of the country, where they could be easily dropped down the streams, north, to the line projected by the Commission It was also agreed

to pay for the cost of the parties working in the field upon that portion of the main line taken over tay the Commission from and after Dec. 1, 1901, up to the date at which they were taken over: The cost of these parties has not been accurately ascertained as yet.

Previous to the purchase of these surveys the Commissioners had sent our parties to survey a route between Winnipeg and Lake Abstibl, the headquarters of the district engineers in charge being Winnipeg (afterwards charged to Rat Dortage, Ont.), Kepigon and North Bay, Ont. The Commissioners pro-

(Continued on page 311.)

August 1905

1: ...

ξ...

E HH

Çijill.

Est 1

lit.

11/11

tipati i

 $_{C,C}:f$

113.17

(0.111)

1:1:111 /

Mill "

1111

11/11/1

1 :11

Citto

110

1:1- 1

14 (1)15

1-111-

10011

31.1-1

11/11

Hir

1135

1551

1. 46 1

kel i

114

111

111,4

1 4

1111 11

· 12.11

11.1

19UST 1905

ontinental Railway Report.

continued from page 337.)

ep the route as far as possible in Lake Abitibi, and not to deflect North Bay, as was the object of Co. The Commission had, of making the report, only two v parties sent out by the G.T.P.R.

mussion has a well-organized transsuff, with headquarters at Ottawa, and in a position to deliver all needrequired by the parties, all along and is in a position to move its supthe interior with comparative ease ony, although the cost of transportasome sections, heavy. The transthrough New Brunswick and the pl of the province of Quebec, exfor as the western boundary of has been accomplished mostly by and very little trouble has been ex-In these districts, except that aristhe unusually heavy snowfall of winter. A great deal of difficulty with in getting supplies up to the ners of the Ottawa and Cathican it was late before the supplies were ther having secured the necessary toats and men. The men were overice in some cases, before they had the distributing eachés aimed at. ter transportation up the Gatineau a conducted by teams as far as the a large caché there, from which has been distributed to the different by packers and dog teams. Dog we also been employed to advantage Tigh North Temiskaming to the the north and west of Lake Abitibi of road had to be cut out. Although er was one of unusual severity, there disasters of any moment, with the m of the death of W. Lenmy, transther up the Temiskaming route. on ahead of his party, looking for way for moving his supplies on, and sposed that he broke through the ice drowned. The distance from the the railway track at Maniwaki to be supplies are taken by teams to the the Gatineau, is about 115 miles. ere to the south line is about 20 miles. or the south line to the north line is o miles. As there is no road or trail an the forks northward, the difficulty

and will adhere to it -that promotion must be made on werit alone, and in the matter of merit the judgment of the engineers will prevail in their department.

As to the work accomplished it is reported that the exploratory surveys in districts A and B had been completed, and the parties withdrawn. The Commission is now possessed of sufficient information to enable a decision to be arrived at as to whether the line via Fredericton and St. John River Valley or the one across the centre of New Brunswick should be adopted. It will be some little time before sufficient information is obtained to enable a decision to be arrived at as to whether the line north or south of Lake Abitibi will be perferable, although about all the information desirable for that purpose in the eastern portion of district B has been secured. It was proposed to commence location surveys in districts A and B as soon as the local conditions would permit, probably the first week in May. It was expected that location surveys in districts A, B and P would be completed so that tenders might be called for in the early autumn.

It was deemed advisable before tenders were invited that there should be prepared general specifications covering all works, forms and conditions under which tenders will be asked for, forms of contract that will be insisted upon. After some correspondence with the G.T.P.R., it was decided that there should be uniform specifications on the eastern and western divisions of the line. These specifications were prepared and have been approved by the company. They have been submitted to the Minister of Railways, who has also approved of them, although his sanction is not necessary. A copy of the specifications is appended to the report.

The Commissioners have, as far as possible, familiarized themselves with the country. They have visited Quebec, Edmundston, Grand Palls, Woodstock, Fredericton, Bolestown, St. John, Norton, Chipman, Minto, Moneton and Halifax, and also spent several days in Winnipeg, studying with the Chief Rugineer the conditions there, and at the same time, visited Selkirk and Port Arthur. It will be necessary in the near future to ile cide upon the questions involved in connec tion with the terminals at Quebec and Winnipeg. The report continues:

The Cominission feels that it should make special reference to the work which has been accomplished in connection with the surveys from Moneton to Chambiere, 7 It has been indicated for many years that a

parties were placed in the field on Sept, 27, 1901, and continued at work through the whole winter the most rigorous and with the heaviest snowfall in that part of the country within the memory of living man), and as a result we are in a position to state that we have secured a line from Moneton to Chauliere with a maximum grade of 0.4 opposed to eastbound freight and 0.6 opposed to westbound freight, and with a nax mum curvature of 6° and these only used in a few places. This line runs all the way through a valuable country, part of which is settled and the remainder is most desirable for settlement, and the opening of which will be of great advantage to the country. The probable length of this line, when finally concluded, if the cross country route in New Brunswick is adopted, will be shorter than the LC.R. between the same points, but how much we cannot say until our location sur veys have been completed. If, however, the grades in existence upon the I.C.R. were employed, a saving of at least 90 miles over the LC.R. by the cross country route would be effected, and nearly as much by the river route. The value of the road on the lines we have secured, and with the grades and curvatures we have obtained may best be understood by a comparison with the LC.R.with its grades and curves, and in this connection we refer to the calculations con tained in the report of the Assistant Chief Engineer, M. J. Butler, from which I will draw a few conclusions. The same motive power that will haul 660 tons on the LC.R. will by the line secured haul 1,200 tons going east and 990 tons going west. If we take the workings of the two roads with 10 daily LC,R, freight trains each way, we find that in 313 working days upon the LCR. there would be 4,131,000 pay tons of freight carried, and to haul this number of trains there would be 3,089,310 train miles per year. The cost of this, as per the report of the I.C.R. for 1903, would equal \$3,010,711 The Transcontinental Ry, would only have to run (via the centre route) 1,825,415 train miles per year to move the same quantity of freight, and which, at the same cost per train mile as the Intercolonial, would amount to \$1,782,518.72. It will thus be seen that the annual operating cost of the LC.R. for the said quantity of freight is \$3,016,711.21, while that of the Transcontinental will only be \$1,782,518.72, a saying in favor of the Transcontinental of \$1,237,192.47, which capitalized at 4% per annum equals \$30. 854,812,25; that is, we claim that the Trans

ice in some cases, before they had the distributing cachés almed at. ster transportation up the Gatineau a conducted by teams as far as the a large caché there, from which has been distributed to the different by packers and dog teams. Dog are also been employed to advantage auch North Temiskaming to the Lake Abitibl. In order to get supto the north and west of Lake Abittbi of road had to be cut out. Although at was one of unusual severity, there disasters of any moment, with the a of the death of W. Leamy, transtheer up the Temiskaming route. on ahead of his party, looking for way for moving his supplies on, and posed that he broke through the ice drowned. The distance from the the railway track at Maniwaki to be supplies are taken by teams to the 4 the Gatineau, is about 115 miles. are to the south line is about 20 miles, " the south line to the north line is 0 miles. As there is no road or trail In the forks northward, the difficulty porting supplies by dog teams and can be appreciated. One of the obstacles encountered in the transof supplies into the interior is the on the lakes. After the lakes freeze weight of the first heavy full of snow he ice; consequently the water overand saturates the snow, which is into shish, and will not freeze exand broken up. This slush will usually a the weight of a man, and is someeveral feet in depth. Each successive now has the same result, and the lakes wetimes rendered almost impassable. whase of supplies, etc., were made by whasing department, under the charge 1. Ogilvie.

or as the Commissioners were aware, employes are British subjects and, with " exceptions, Canadian born. undent," the report continues, "that have a full home supply of both and common labor for the purposes work. During the rather hasty marof our forces, we took on a few eninstrument men and laborers, who to be undesirable. This was to be These have been about all weeded nd we are confident that we have in "Heloy to day, as fine a body of engineers, mt and men as can be found upon any work. We have laid down the rule

be insisted upon. Acces some server, ence with the G.T.P.R., it was decided that there should be uniform specifications on the eastern and western divisions of the line. These specifications were prepared and have been approved by the company. They have been submitted to the Minister of Railways, who has also approved of them, although his sanction is not necessary. A copy of the specifications is appended to the report.

The Commissioners have, as far as possible, familiarized themselves with the country. They have visited Quebec, Edmundston, Grand Falls, Woodstock, Fredericton, Bolestown, St. John, Norton, Chipman, Minto, Moneton and Halifax, and also spent several days in Winnipeg, studying with the Chief Engineer the conditions there, and at the same time, visited Selkirk and Port Arthur. It will be necessary in the near future to deeide upon the questions involved in connection with the terminals at Ouebec and Win

nipeg. The report continues:
"The Commission feels that it should make special reference to the work which has been accomplished in connection with the surveys from Moneton to Chaudiere. It has been asserted and believed for many years that a line could not be secured across the centre of New Brunswick, with grades equal to the Intercolonial Rv., or any grades which at the time of the building of the LCR, would have been considered reasonable; also that it was impossible to secure such a line around the corner of the State of Maine, except by such an enormous expenditure as woold make it prohibitive. It was also asserted that it would be necessary to use 1% or heavier grades the remainder of the way to Chaudiere. On the other hand, it was claimed that these difficulties did not exist; that the surveys which had apparently established them had not followed the right direction, or had not exhausted the possibilities of the territory traversed. In taking up this part of the work, the Commissioners decided to have an exhaustive and minute examination made of this country, and to acquire and present such information as would definitely settle and determine these conflicting contentions. We deemed it best to ascertain beyond doubtwhich was right and which was wrong in order that the public mind would be set at rest. To this end we directed our engineers to make the most exhaustive and careful explorations and surveys, so that having before them all that had been written or said they would be able to make complete and decisive reports. The first of the surveying

tained in the report of the Assistant viner Engineer, M. J. Butler, from which I will draw a few conclusions. The same motive power that will haul 660 tons on the LC.R. will by the line secured hauf 1,200 tons going east and 990 tons going west. If we take the workings of the two roads with HI daily L.C.R. freight trains each way, we find that in 313 working days upon the LC.R. there would be 4,131,000 pay tons of freight carried, and to haul this number of trains there would be 3,089,310 train miles per year. The cost of this, as per the report of the I.C.R. for 1903, would equal \$3,010.711. The Transcontinental Ry, would only have to run (via the centre route) 1,825,415 trains miles per year to move the same quantity of freight, and which, at the same cost per train mile as the Intercolonial, would amount to \$1,782,518.72. It will thus be seen that the annual operating cost of the LC,R, for the said quantity of freight is \$3,016,711.21, while that of the Transcontinental will only he \$1,782,518.72, a saying in fayor of the Transcontinental of \$1,237,192.47, which capitalized at 4% per annum equals \$30, 854,812.25; that is, we claim that the Trans continental, with its lower grades and curves, the road being equally well constructed with the LCR, will be over \$30,000,000 more valuable. With increased business the difference would be much greater. If, how-ever, we give the Transcontinental 10 fully loaded trains per day (of its own) instead of confining it to what would be equal in tons to 10 fully loaded trains upon the LC.R., the difference would be much greater still and the net annual saying would amount to \$2,157,544.52, which capitalized at 4% per annum would give \$53,938,613 as the increased value of the Transcontinental low grade line over the LC.R. If the grades are increased to the LCR, standard the distance would be reduced in the Transcontinental to 403.7 miles. Taking the same 10 frains per day companson, there would be an annual saving in favor of the latter road of \$548,937.52, which being capitalized at 4 % per annual equals \$13,723,438, which represents the increased value of the Transcommental Ry, over the LCR for the handling of that amount of truthe. As the traffic increases, the difference increases. These calculations have all been made upon the centre line through New Brunswick. They can easily be applied to the other route. There are sundry other comparisons in the report of Mr. Butler which should be re-

August 19

10 11. 03, leaving \$50,537.97 on hand of the event of tenders being asked for a of the session of 1904 sould enable the Commissioners to ware issued to the engineers in charge untyl Assistant Chief Engineer. 100 for terminals and right of way, 152,379,52 to pay the O.T.R. for the ill be necessary to have a further sum nd for 1905-06, it was estimated that on operations to the end of the liscul -slimated that a further vote of \$200, under A. E. Doucet, with headquart-Quebec, P.Q., and S. R. Poulin, his on in the field. The section in the or with headquarters at Fredericton, thas follows: District A, from Mone the boundary between New Bruns and Quebec, under G. C. Dunn, district or \$1,000,000 for construction work (RM),(MM) to meet payments to con fall, the Commissioners estimated that an would meet all expenditures my to the vicinity of longitude, 74° usiriets approximating 315 miles each art, with headquarters at Ottawa. Out Quebec. District C, from the vicin ty of Quebec Bridge from St. Jean s, etc., taken over by the Commission '97 to Winnipeg, under A. E. same date liabilities of \$175,761.60. on near longitude 84° to near longi 89° 30', under C. E. Perry, district ast mentioned provincial boundary to L. F. Fraser and G. H. Garden, assist i) under A. N. Molesworth, district en Quebec and Ontario (east of Lake e and Portneuf, about 17 miles, was stome to the county line between District B, from the last mentioned illistance to be surveyed was divided report of the Chief Engineer, II. II. ers at New Liskeard, Ont. District longitude 84° west, under 1. Aylen in the field. longitude 74° to near the boundary and C. F. Hamington, assistant in assistant district engineer, with head hendquarters at Winniper. The supplementary estimates proset out that M. Willi District F, from near longitude headquarters at Nepigon Districy D, from near They were in Butler was Tox Com MENSUL

routes many pieces of alternative lines were river route the distance is 311 miles, but will ary is, say, 294 miles, which distance will back line from Moneton to the Quebec bound run or explored. THE THE DAME obtained, except the curvature which may traffic, with maximum curvature of 4° were eastbound and 0.0% adverse to westbound mary lines, 1,320. mileage covered in this district was, of baro probably be lengthened on location. probably be shortened on location. metrical explorations, The total distance by the Grades of 0.4% adverse to 2,000 miles; preliqu Timel

require the use of several 69 curves.

Distract B. The first of 11 survey parties in this district was sent out on Oct. 10,
1904, from which date to Mar. 1, 1905, a prove that, for the entire distance (423 miles) from the boundary between the provbeen run. The results of these surveys 540 miles of preliminary surveys having annined, some 677 miles of exploratory and large area of country was explored and ex bound and 31.6 ft. per mile opposed to east Lake Baker to the westerly limit of the district near longitude 74° west, grades not exince of New Brunswick and Quebec, near use of in a very few cases. The curvature was limited to 4% but it has been found necessary to use 65 curves at two or three last nientioned grade has only to be made use of in a very few cases. The curvature bound traffic have been obtained, and the and the boundary between the counties of Quelice and Portneif on the north side of exceptional points. The partion included The St. between St. Jean Chrysostome on the south city. The main line distances were as folthe approaches and terminals for Queber of E. A. Hoare, and his section also includes lows: Line I with varduct over Cap Rouge 0.6 westbound. City approaches, bridge to Champlein market, 6.40 miles. Crades ad miles: Bridge to county line, 13.14 miles, total, 20.87 miles. Grade 0.1 castbound 0.1°, each way. Line 2, ayouting viaduct 1 C.R. Railway to B & R. Company yard, 533 miles. B. & R. Co. bridge and line, 2.40 line, 7.60 miles: total, 45.30 miles. Grade and line, 2.40 miles Bridge to exunty line pany yard, 5.33 miles, B. & R. Co. bridge River, I.C.R. Railway to B. & R. Com verse to westleand name about 53 it to Laurence River was put in charge

ing point, which is about a mile and a half from the upper end of Agotawekami Take

are just being sent on , one going on the north line from near the north west bay of Lake. Abirity, and rranning westward; a

has had no mouble. Three more parties So far, from this point eastward that partly

then westerly, the third party soing in to and running easietly for say six miles and to the vicinity of this proposed northern line second party going down the Abithi River

meat the north east corner of the rownship

point and running westerly beyond Fred crichouse River. These parties are all ex-River, and then returning to their starting of Reatty and running easterly to Oliosi

pected to be at work before the end of March

The surveys in this dis

Instruct E

south line will find a rough, broken country From reports the party working on the line passing to the north of Lake Abitilis the line passing to the south and one on the

for at least 30 miles westward of their start

abandon unles of time owing to men meet tain the grades required. country where it was impracticable to obing with numerous lakes and stretches of will prove the most advantageous. Caches with provisions for all the necessary parties decided whether the north or south line reports they are now making fair progress soon as the ice moves out of the rivers and north end of Grand Lake Victoria. at the forks of the Catineau, and at the for the next 10 months have been provided but it will be some time before it can be and north from these eaches for the use of the respect to its suitability for settlement.

"DISTRICT D. The nature of the country mature of the country passed through in tageous, both as to cost of construction and will probably be found the most advanceived would indicate that the north life various parties. The reports so far lakes supplies will be distributed east, west From the latest

and of the timber in this district is in many

and fur-trading posts on Lake Abitibi, close the proposed line other than Hudson's Bay there are no settlements in the vicinity of respects similar to that of District C, and

tics are now at work in this district, one on

to which lake the lines will run.

Two par

AUGUST 1905

under J. R. Stephens, the engineer for the trict have all beretofore been conducted

30430

" dince this estimate." mile, and we hope to very consider must estimate accurately the cost of an all the year round, of 25 miles of sposed line from Moncton to Chan and we think we are safe in stating in about five mouths of the year will not exceed an average of \$33, . he said in favor of putting in these an five months of the year, there is nother it would be more economical of construction, maintenance and no of distance of 25 miles can be aren Chaudiere and Moneton where al up. There are two points on the grades. On the other hand is placed maffic east beyond Quebec will only half in these grades. As the heavy non of valuable country would not dentity over 100 miles, Transcentinental, the distance from igninst a 'pusher' service at two or the eastern section of this line found desirable to put in 'pusher' the standard that we have secured upied to lower the grades of the independ of the Commission is, information obtainable, that if it saygested that the I.C.R. could be in order to estimate the additiona It is a mere matter of calculation in Moneton would be increased he line we are constructing If this is decided upon, a and this

and 6.2 03, leaving \$59,537.97 on hand of a cocof the session of 1904. There were ild be necessary to have a further sum and for terminals and right of way HILLORD to meet payments to con and for 1905-00, it was estimated that an aperations to the end of the fiscal expenditure to the end of March was tos \$1,000,000 for construction work i sijunited that a further vote of \$200, rall, the Commissioners estimated that the event of tenders being asked for ion would meet and enable the Commissioners to same date liabilities of \$175,701,00 The supplementary estimates pro all expenditures, There were

> :SMO! summarized by the Chief Engineer as fol The work done by the different parties is The maximum curvature was limited to fo to the last mentioned this has been changed verse to westhound traffic, though in regard 0.4% adverse to eastbound and 0.5% ad structed to adhere to grades not to 0.6% in one or two exceptional cases

veys made in district B, at a point about 20 miles beyond the province line. Another route was surveyed branching off the lone. south of Bolestown to the head waters of these, however, were dishanded before the end of Dee. Commencing at Moneton and following month six more parties; (wit of gineer for that district, organized and startwho had been appointed acting district enlarge area of country has been explored, and extending through to Quebec boundary, a ed out six survey parties, and during the require the use of several 6° curves. rontes many pieces of alternative lines were ericton, thence following the west side of the the St. John River and crossing it at fired going near Chipman, striking the valley of near Plaster Rock, then to Grand Palls and valley of the Gaspercan River, and passing by what is known as the back route up the preliminary surveys have been made to Chipman on the Salmon River, and thence traffic, with maximum curvature of 1º were ensiliound and 0.0% adverse to westleanly inary lines, 1,320. Grades of 0.1% adversed of probably be shortened on location. By the river route the distance is 311 miles, but will ury is, say, 294 nilles, which distance will run or explored. The total distance by the point, thence to Grand Falls, where it joined crossing the river at the last mentioned river to Woodstock, and Andover, and to Edmundston, and connecting with the sur the Texas and Miramichi rivers, thence to obtained, except the curvature which may metrical explorations, 2,900 miles; prelim mileage covered in this district was, of haro probably be lengthened on location. back line from Moneton to the Quebec bound the back route survey. On both these "District A - On Sept. 27, G. C. Dunn Total

and preliminary survey lines run in this secwestbound 0.6%. Total length of location basin via line 2, 12.75 miles. Louise basin 6.40 miles. Maximum grade Branching off line 2, avoiding viaduct to Champlain the mile Total distance county line to Louise market Total distance county line to NIA line 1.14 miles Maximum grade

the line in this district will pass is entirely uninhabited save by several Hudson's Hay or fur traders' posts and a few Indians, and tion, 85 miles. ions beyond the regular transportation routes. They have now been at work for some time, but in many cases have had to erous takes, the land being more or less timindicate, this country is dotted with numas reports heretofore received by us would angles to the direction of the proposed line unsurveyed with the exception of a few exearly forming of ice and difficulty in trans and small tanuarae and cedar. Eight purthe country between the streams. As fur principal rivers, and these generally at right plorations, geological and others, along the time in reaching their destination, caused by the low state of the water in the rivers, the district in Oct., four going out by why of ties were organized and sent out in this bered with spruce, cypress, birch, for the next 10 months have been provided with provisions for all the necessary parties will prove the most advantageous. Caches reports they are now making full progress country where it was impracticable to obing with numerous takes and stretches of abandon miles of line owing to their meetporting considerable quantities of provis the season, these parties took considerable Kippawa, Que. Owing to the lateness of Maniwaki, Que., and four others by way of No reliable information is obtainable as to and north from these eaches for the use of the at the farks of the Catineau, and at the north end of Grand Luke Victoria. As decided whether the north or south line to in the grades required. From the latest soon as the ice moves out of the rivers and takes supplies will be distributed east, west but it will be some time before it can be "DISTRICT C. the regular transportation -The country through which BRIGHT

TENDIST

THE MEASURE III IN

ting

th

1111

101

1 : 1

and a line run across the entire north end of Nepigon Lake this line much to the south, especially ing the Missanabi River, near Alds, at which point it turned south-al headed for North Bay. At the last a neared for North Bay. At the last point near Albany rapids the line he about 18 or 20 miles south of the passing to the north of Lake now proposed. I am now arrow the north of the north a parties who have been working I'P R, during the winter in that the put on to explore this direct agh to cornect with parties which been sent out in District D, for a surpose. The surveys so far made astrict go to show that the country and broken in places, with one or ausive river crossings, especially abed line is some distance north of the run, and I have been informed much better crossing can be found north of said line, it is probable that sing can be much reduced in cost run in this district passes through ay be found to be fair agricultural a considerable extent, with large bulle, but where not burnt over the generally small spruce, cedar and the latter generally dead, with mal blocks of heavier timber, suitable TRICT E. The surveys in this dis-

to Jan. last were conducted by the R engineers, who in Nov. commenced a line which showed heavy work. From the information furnished in it was my opinion that there was florent exploration through the country affaint the continuance of location inch time as I was sure the line they in was the best the country afforded, lingly in January last I sent out one mary and five exploratory survey under A. E. Hodgins, district enginexplore and examine other sections country than those shown to have plored by the G.T.P.R. parties.", he request of the Chief Engineer, M. I. Assistant Chief Engineer, who had a been over considerable portions of

been over considerable portions of
A and B, made a report on the comclistances by the Intercolonial Ry.,
I can Chrysostome to Moneton and
Transcontinental preliminary line,
tat difference would be made in this
supposing grades of 1% were used
direction; and comparing the operabres of the several lines on the basis
reight trains per day each way; and
what the difference in the capital

ton to St. Chrysostome, by such 1%, both For the purpose ways grade, 403.7 miles. For the purpose of the calculation, I have taken the LCR locomotive no. 310, a simple consolidation, recently built by the Canadian Locomotive Company, and which, I understand, is now in use on the line, the principal dimensions of which are as follows: Diameter of cylinder, 21 ins.; length of stroke, 28 ins.; height of driving wheels, 56 ins.; weight of driving wheels, 150,000 lbs.; weight of engine in working order, 165,000 lbs.; weight of tender, 120,000 lbs.; total weight of engine and tender, 285,000 lbs.; or 142 5 tons. The weight of the van or caboose is 14.5 tons. I assume that 30-ton capacity cars, which weigh when loaded, 46.15 tons, will consti-tute the train. The several cars which the above locomotive can haul at a speed of 15 miles per hour on the several grades be low are as follows: 1.C.R. 1% grades, 22 cars, equal to 660 tons net pay load. Trans continental Ry, eastbound 4-10ths of 167 grade, 42 cars, giving 1,260 tons net pay load. Transcontinental Ry westbound, 6-10ths of 1% grade, 33 cars, giving 990 tons net pay load. The LC.R., 10 daily freight trains each way, will haul in a year of 313 working days (length of line 493.5 miles), net pay tons 660x2, trains 2x10x313 days=4,131,600 pay tons; and to haul this number of trains will make 493.5x2miles, 2x10 trains, 313 days, 3,089,310 train miles per year. The cost per train mile on miles per year. The cost per train mile on the LCR. Ry. for 1903, as given in the report of the Department of Railways is 97.65c, which cost will be used for all comparisons. Hence 3,089,310 train miles x 97.65c. \$3,016,711.21, which gives the anmual cost of operating the ten daily trains on the LCR. The Transconfinental Ry. low grade line will handle the same ton-nage, with 7 trains eastbound and 5 west bound, although they will not be quite loaded to the full limit, the ratio of eastbound to westbound traffic is taken at about 6 to 4. (Length of line 486 miles) Hence we get 486 miles x 12 trains x 313 days=1,825,415 train miles per year, which moneyed out at the same price per train mile of 97.65c. equals \$1,782,518.72, which gives the annual cost of operating the twelve trains on the Transcontinental Ry The trains on the transcontinental Ry The annual operating cost of the LCR, being \$3,016,711.21. The annual operating cost of the Transcontinental Ry, being \$1,782,518.72. Leaves a net annual savings in favor of the Transcontinental Ry, of \$1,721.102.10. which compositions of the LCR. 234,192.49, which sum capitalized at 49 per annum equals \$30,854,812.25. And the And this amount is the increased value of the Trans-continental low grade line over and above the existing LCR, on the basis of 10 daily with in

St. Chrysostome, 403.7 miles; ten daily trains each way per day for 313 working days; 403.7 miles x 10 x 2 trains x 313 days 2,527.162 train miles per year. Tonnage lauled, same as on L.C.R., viz., 4,131,600 pay tons; 2,527,162 train miles at 97.65, \$2,467,773.69. As the L.C.R. cost for the same service is \$3,016,711.21, the net annual savings by the proposed 1%. Transcontinental would be \$548,937.52, which sum, enpitalized at 4% \$31,723,438; and this amount is the increased value of the suggested 1%. Transcontinental line over the L.C.R., on the basis of ten daily trains over each road each way. The comparison between the two proposed grades on the Transcontinental Railway works out as follows:—On the basis of ten daily trains each way per day, on the 1% grade line 1%, per grade line train mileage cost, doing same business, \$1,782,518.72 net annual savings in operation \$685,254.97, which capitalized at 4% per annum = \$17,131,374.75. And this amount is the increased value of the low grade line over the 1% line. In all the above calculations no account has been taken of reduced operating cost for passenger trains. It is obvious that substantial savings will result from the use of lighter engines to haul the same passenger train. Less fuel, oil, etc., will be required, less wear and tear to track and bridges through lighter engines, better time and more uniform rates of speed may be maintained. In conclusion, the cost per ton on the several lines, based upon the above figures, are as follows: LC.R., Moncton to St. Chrysostome per ton, 50.7-10 cents; Transcontinental Ry., 0.4% and 0.8% grade, Moncton to St. Chrysostome, per ton, 50.7-10 cents; Transcontinental Ry., 0.4% and 0.8% grade, Moncton to St. Chrysostome, per ton, 50.7-10 cents; Transcontinental Ry., 0.4% and 0.8% grade, Moncton to St. Chrysostome, per ton, 50.7-10 cents; Transcontinental Ry., 0.4% and 0.8% grade, Moncton to St. Chrysostome, per ton, 50.7-10 cents; Transcontinental Ry., 0.4% and 0.8% grade, Moncton to St.

Robert Larmour, Principal of Larmour's School of Telegraphy, Stratford, Ont., and formerly Superintendent of the G.T.R. Southern Division, writes:—"I read The Railway and Shipping World with much interest, as it keeps me in touch with many old friends with whom I was connected when in active railway life."

The question of the provision of standard rules for train operation which was taken up by the Board of Railway Commissioners and discussed with representatives of the railway companies, was referred to a committee consisting of representatives of the C.P.R. and the C.T.R. That committee has now practically completed its report, which will be submitted at a meeting of the representatives

AUGUST 1905

(

I

A

ħ

1

1

The Transcontinental Railway Commissioners left Ottawa, Sept. 29, on a trip to the Maritime Provinces. From Quebec they travelled to Riviere du Loup, thence via the Temiscouata Ry. to Edmundston, N.B., and on by the C.P.R. to Grand Falls. From this point they went to Plaster Rock, via the Tobique Valley Ry., and then along a portion of the projected route of the Eastern Division to Fredericton. St. John was the next point visited. Messrs. Young and Reid went to Chipman, where the Central and the St. John Valley routes meet, and Messrs. Parent and McIsaac joined them later on. A visit was also paid to Halifax and Sydney, and later on a trip was made to Prince Edward Island, where they went over the railway, leaving Charlottetown for Ottawa, Oct. 9.

The offices of G. C. Dunn, Division Engineer, will be moved Nov. 1, from Fred-

ericton to St. John, N.B.

Work has been commenced on an extension

November 1905

ne, classifications and tariffs, in order arrious commercial centres and all may be treated equitably and that rements of the recent Railway Act cried out. The freight officials of portation companies have their own a duties, which usually are heavy to require their entire time, and the officer of the Association can be of relief to them and at the same time arrive to the public, in ascertaining onling to the Association in a thorough the needs of the public as far as cution can deal with them.

als has also been Manager of the ten's car service department, which to be abolished, its work being transthe Car Service Bureau, reference

is made on page 359.

Legiscontinental Railway Surveys.

unber of press reports are current in the route and as to the time when Il be started. One report has it that ate from Winnipeg has been laid out, to be approved by the Government and of July. According to the act, as in the commissioners' report, no promade for the Government's approval The reference of the plans to the 1 of Railways, mentioned in the report, ourtesy one only, and his approval is and unnecessary formality. te of the surveys at the end of Feb., it ult to imagine that the surveys for the route between Moneton and Winnipeg sich a condition as to say that all the mary surveys had been completed, remade thereon, and a route decided upon. or reason why it is unlikely that the issioners have adopted any particular is, that no successor has been appointed chairman, the late F. B. Wade, K.C., hile any two of the commissioners in . are competent to transact business, anulal hesitate before deciding on such portant matter, while there was a vaon the commission.

ther report declares that the whole in section will be abandoned as it has found that the cost of construction in parts will be so high that its construction altogether out of the question. Other is state that contracts will be asked for makew weeks, and that construction will cur in the fall. It is more than doubtful, see, if anything in the way of asking for the will be done until the fall, or early

winter, and it is not at all likely that any construction will be undertaken this year.

The commission is having built at Nepigon, Ont., a residence and office building for the District Engineer and his staff. The probable cost of the building will be between \$2,000 and \$3,000.

Grand Trunk Pacific Railway.

F. W. Morse, Vice-President and General Manager, spent some time at the end of fune and early in July at Fort William, Ont, and Winnipeg, in connection with the business of the company. He stated, on his return to Montreal, July 4, that work would be commenced on the Lake Superior branch at Fort William, about a month thereafter.

The route of this branch as filed with the Department of Railways by the G.T.P.R. Co., provides for a line about 220 miles long. The surveyed route runs westerly from the terminals at Fort William to Kakabeka Station of the C.P.R., thence parallel with the C.P.R. for 41.3 miles to Linko (formerly Linkoping station. From this point the route is northwesterly, passing immediately south of Mattawa Lake, and north of Minnetakie Lake to the terminus on the east boundary of Lae Seu Indian Reserve, north of Lost Lake, where connection will be made with the main line of the Transcontinental Ry.

A Winnipeg press despatch of July 1: stated that construction on the western division would be commenced in about a month. The route, it stated, had been definitely located westward to the intersection with the Regina and Prince Albert branch of the C.P.R. (Qu'Appelle, Long Lake and Saskatchewar Ry.), and provisionally to Edmonton. It was further stated that construction would be started in the vicinity of Portage La Prairie, Man., and that the first contracts let

would cover 400 miles of grading.

gradient eastbound is 0.4%, and westbound 0.6 %, and the maximum curvature is 5" compensated. There is a large amount of rockwork on the contract, in one place there being a cutting of 128,000 cubic yards; while across the height of land there is a good bit of shallow muskeg. There are a few bridges on the route, including four large steel ones. The company will build its own stations and put in a water service. There will be a division point about 100 or 110 miles north of Fort William. The work is to be completed in time to have the line in operation in the fall of 1907. U. W. Swenson, who was recently in charge of construction for the firm on the C.P.R. Toronto-Sudbury line at Wahnapitae, Ont.; will have charge of construction of the G.T.P. branch, with his headquarters at Fort William.

The construction for the company is under the charge of G. A. Knowlton, Division Engineer at Fort William, Ont. The first sec tion is 100 miles in length, and is sub-divided under the charge of A. G.-Allan, as Assistant Engineer, for the first 50 miles, with headquarters at Fort William, and G. Macrone, Assistant Engineer in charge of the second 50 miles, with headquarters at Sa vanne, Ont. The assistant engineers have a number of resident engineers under them. each of whom has charge of from six to ten miles of construction. On the first 50 miles the resident engineers, with addresses, are:-S. Street, R. A. Frederick, Fort William, A. E. Morris, Kakabeka; H. B. Dibbley, Kaministikwia: S. F. Hazelwood, Finmark J. M. Fotheringham, Buda; and on the second 50 miles, W. R. Smith, C. D. Fairchild. 1 S. Leitch, J. A. Vickery and E. R. Brobeck. their nearest post office being Savanne This second 50 miles runs through unsurveyed territory and a more exact location of the resident engineers cannot be given. The contractors have been completing their storehouses and other arrangements, but have not vet let any sub contracts.

The question of the Winnipeg terminals has been under consideration by the National Transcontinental Railway Commissioners, the Canadian Northern Ry, and the G.T. Pacific Ry interests, and the Winnipeg City Council. The Board of Railway Commissioners has also some matters before it in connection with the closing of certain streets on the lands acquired by the Canadian Northern Ry, for its terminals. The proposition is that there should be a joint terminal or the C.T.P. Rv. and the Canadian Northern Rv. This latter company has secured a large area of hand for its terminals, and a good deal of the difficulty in arranging for joint terminals is as to the ownership of the land

The contractors for the line from Portage la Prairie to Touchwood Hills, Man. 275 miles, McDonald, McMillan Co, have let sub-contracts as follows—36 miles to G. H. Strevel, Portage la Prairie, 10 miles to W. Keith, Portage la Prairie, two miles to W. McOuat, Wellwood; four miles, Roe Bros. Wellwood; five miles, J. A. Munson, Brookdale; 11 miles, J. A. Tierney, Varcoe, two

Chief Engineer, J. McLaren, Assistant Engineer, and W. J. Weller, Bridge Superintendent, for the contractors, and the following represent the railway company. Section I, from Portage la Prairie, westerly for 86 miles, Assistant Engineer A. M. Jones, who has under him as resident engineers. R. Ripley, Bagot, Man.; H. I. Johnston, Austin, Man.; M. A. Burbank, Carberry, Man. J. Durie, Sewell, Man.; C. M. Bull, Forest, Man.; R. F. Hickman, Carnegie, Man. Section 2, H. B. Roe, Assistant Engineer, who has as resident engineers. C. E. McLennan,

Man.; J. Hislop, Birtle, Man.

The plans for the line from Touchwood Hills, Man., to Edmonton, Alta, bave been supplied to the Dominion Government, and C. Schrieber, formerly Deputy Minister of Railways, has been commissioned by the Minister of Railways to report upon the location. The company expects to be able to put under contract about 400 or 500 miles of line west of Touchwood Hills, by the end

Oak River, Man.; A E. Stanton, Miniota.

In reference to the terminus of the line on the Pacific coast, reports are current that Vancouver will be chosen instead of Port Simpson or Kaien Island. A press report is also current that a prize of \$250 is to be offered by the company for the best name for the terminus, the competition to be amon; the school children of the Dominion

November 1905

Grand Trunk Pacific Rallway.

A contract has been 4et to Foley Bros., Larson & Co., of Winnipeg, Man., and St. Paul, Minn., for the construction of the Lake Superior branch from Fort William to Lake Superior Jet., Ont., about 210 miles, and including a branch into Port Arthur Lake Superior Junction is the point where a connection will be made with the Eastern Division, which the National Transcontinental Railway Commissioners will construct easterly from Winnipeg. The contract covers the grading, culverts, bridges (except those of steel) and everything ready for the ties and tracklaying. The company will let the contracts for the steel bridges direct, and will do its own tracklaying. The maximum gradient eastbound is 0.4%, and westbound 0.6 ",, and the maximum curvature is 5" compensated. There is a large amount of rockwork on the contract, in one place there being a cutting of 128,000 cubic vards; while across the height of land there is a good bit of shallow muskeg. There are a few bridges on the route, including four large steel ones. The company will build its own stations and put in a water service. There will be a division point about 100 or 110 miles north of Fort William. The work is to be completed in time to have the line in operation in the fall of 1907. O. W. Swenson, who was recently in charge of construction for the firm on the C.P.R. Toronto-Sudbury line at Wahnapitae, Ont.; will have charge of construction of the G.T.P. branch, with his headquarters at Fort William.

The construction for the company is under the charge of G. A. Knowlton, Division Engineer at Fort William, Ont. The first section is 100 miles in length, and is sub-divided under the charge of A. G.Allan, as As sistant Engineer, for the first 50 miles, with headquarters at Fort William, and G. Macrone, Assistant Engineer in charge of the second 50 miles, with headquarters at Sa vanne, Ont. The assistant engineers have a number of resident engineers under them. each of whom has charge of from six to ten miles of construction. On the first 50 miles the resident engineers, with addresses, are S. Street, R. A. Frederick, Fort William, Vakabeka, H. B. Dibblee,

miles each to W. Carson, G. S. Poole and H. Olsen, Varcoe: five miles, A. J. Selwood, Miniota: 25 miles to J. Bradley, Miniota; two miles to A. D. McCormick, Miniota; seven miles to H. Guilbault, Miniota. The general contractors have camps at four points covering seven miles of the heavy work on the Sand Hills, and anticipate putting on some more steam shovel outfits during the fall. A sub-contract has been let to the Doukhobors for 17 miles of the heavy work, on which it was expected to put on at once about 150 teams and 1,500 men. These contracts cover about 140 miles of the work which it is expected to have completed ready for tracklaving early in next season. Contracts for an additional mileage are expected to be let at an early date. C. W. McMillan is Manager of Construction; A. T. Fraser, Chief Engineer: 1 McLaren, Assistant Engineer: and W. J. Weller, Bridge Superin tendent, for the contractors, and the follow ing represent the railway company: Section 1, from Portage la Prairie, westerly for 86 miles, Assistant Engineer A. M. Jones, who has under him as resident engineers: 15 Ripley, Bagot, Man.; H. L. Johnston, Austin, Man.: M. A. Burbank, Carberry, Man. J Durie, Sewell, Man.; C. M. Bull, Forest, Man.: R. F. Hickman, Carnegie, Man. Sec. tion 2, H. B. Roe, Assistant Engineer, who has as resident engineers: C. E. McLennan. Oak River, Man ; A. E. Stanton, Miniota. Man.; J. Hislop, Birtle, Man.

The plans for the line from Touchwood Hills, Man., to Edmonton, Alta., Save been supplied to the Dominion Covernment, and C. Schrieber, formerly Deputy Minister of Railways, has been commissioned by the Minister of Railways to report upon the location. The company expects to be able to put under contract about 400 or 500 miles of line west of Tonchwood Hills, by the end of Nov

In reference to the terminus of the line on the Pacific coast, reports are current that Vancouver will be chosen instead of Port Simpson or Kaien Island. A press report is also current that a prize of \$250 is to be offered by the company for the best name for the terminus, the competition to be among the school children of the Dominion.

C.P

lias 50 Dia

ten here tire

111 .1114 de 15 17

11 1 FILE

:11

11 ~1

11

Grand Trunk Pacific Rallway.

Survey parties are in the field over the chole country between Moneton, N.B., and a mining, Man., described as the Eastern excision of the Transcontinental Ry. The anjected route is divided into six districts, he healquarters and division engineers in large heing: Fredericton, G. C. Dunn; maker, A. E. Doucet; Ottawa, A. N. Molesnichec, A. E. Doucet; Uttawa, A. N. Moles-actli, New Liskeard, Ont., appointment not made; Nepigon, Ont., C. E. Perry acting); Winnipeg, Man., Major Hodgins, t is not likely that any tenders will be ked for until the fall so that work may be gone on with during the winter. Con-continuous by communical simultaneously. must be commenced simultaneously Moncton, N.B.; Quebec; at the point of metion of the Eastern Division with the ranch southerly to a point at, or near, either orth Bay or Nipissing, Ont, and at Win-Moneton, eastward and westward from Quewith Bay branch, and eastward from Winapeg, in order that the whole line between doneton and Winnipeg shall be completed a nearly as practicable at the same time. the specifications for construction are being prepared, a considerable portion of the work prepared, a consideranie portion of the work being completed. H. A. Wood, Assistant Chief Engineer G.T.P. Ry., is acting with the commissioner's engineers in arranging the specifications, etc., in conformity with the provisions of section seven of the agreement between the Government and the G.T.P. Ry., confirmed by Chap. 71 of the Statutes of 1903. this section sets forth that in order to proand the interests of the lessees of the Eastern Davision, it is agreed that the specifications he submitted to, and approved of by, the C.T.P. Ry, before the commencement of work, and that the work shall be done acording to the specifications, and shall be subject to the supervision and inspection of the chief engineer appointed by the Government and the chief engineer of the com-pany. In the case of differences between these engineers an arbitrator is to be chosen by them, or appointed by the Chief Justice of the Supreme Court, if the engineers cannot agree on one.

In connection with the surveys upon the castern section of the Grand Trunk Pacific Ry, between Moncton, N.B., and Winnipeg, Man., which is to be constructed by the Transcontinental Railway Commissioners, the annual report of the Department of Publie Works contains the following paragraph: The despatching of so many engineering

Moneton state that a route has been found round the shoulder of the State of Maine giving a grade of 4-10 of 1% going east, and 6-10 of 1% going west.

A return made to the House of Commons shows that there are 30 persons on the staff of the Transcontinental Railway Commission, of the Transcontinental Railway Commission, exclusive of the Commissioners: Their salaries are: H. D. Lumsden, \$500 a month; M. J. Butler, \$475; A. W. H. Sampson, \$125, C. J. Jones, \$80; Fred Dillon, \$80; A. L. Ogilvie, \$150; R. L. Landry, \$70; Alice Seed, \$25; R. M. J. McGill, \$175; Jos. Clement, \$100; R. H. Lang, \$60; H. A. Collins, \$85; John Meghorn, \$75; R. Rojuan, \$70; D. Lefebre, \$20; P. E. Ryan, \$208,34; R. F. Omack, \$150; J. H. Roy, \$100; O. P. Schreiber, \$60; F. McCourt, \$70; P. Wright, \$30; F. W. White, \$100; G. O'Reilly, \$15 as week: A. T. Gow, \$150 a month; W. R. Saults, \$75; R. Lagimodiere, \$60; A. Beaudry, \$70; C. Heidmann, \$80; R. Larocque, \$70; J. O'Malley, \$50. No allowances are made except for actual travelling expenses. The engineers actual travelling expenses. The engineers in charge of parties are appointed by the Board upon the recommendation of the Chief Engineer. The engineering parties were made up in the first place by the Board on the recommendation of the chief and district engineers, and changes in same are made upon the recommendation of the chief of parties and the district engineers and approved of by the chief engineer. The engineers in charge of parties report to the district engineers, who report to the Chief Engineer, and he reports to the Board. Interim reports are received from time to time from the parties in the field and district engineers.

The plans submitted to the Department of Railways by the G.T. Pacific Ry, provide for large terminals at both Port Arthur and Fort William, Ont., and on the Pacific coast. These plans, it has been explained, were deposited to secure available sites from which the final sites would be selected. The Minister of Railways, replying to a question in the House of Commons recently, stated that certain plans had been deposited, but they were not available. The surveys are being prose-cuted from Winnipeg to the coast by a large number of parties, and a report from A. S. Going, who has been in the mountains since August, 1904, states that nine passes are available for a line in northern B.C. These are Yellowhead, Peace River, Pine River, are Vellowhead, Peace River, Pine River, Smoky and North Smoky, Porcupine, two in the Red Deer district, and the Wapti pass. F. M. Morse, Vice-President and General Manager, and other officials are expected to return to Montreal, April 1, from a trip to Victoria and intermediate points. At Port Victoria and intermediate points.

nomical plan. Should a start be made on the Pacific coast the cost would be much greater and the company could not change its without assistance from the Provincial Gov-ernment either in land or eash. The finanernment either in and or cash. The man-cial arrangements for the construction of the line from Winnipeg to the Rocky Mountains had been completed, and it was important that the company should arrange for the balance of the line while the money market cash, its present condition. No receitor of was in its present condition. No portion of the road would be suspended while others were being constructed; every section must bring its returns as soon as ready for traffic, The line would have connection with Vanconver Island and the southern portion of the province.

TRANSPORTATION APPOINTMENTS.

Canadian Northern Ry.-H. J. Cowie has been appointed European Freight Agent with offices at Liverpool, Eng.

Canadian Pacific Ry.—W. M. Kirkputrick, heretofore Assistant General Freight Agent at Vancouver, B.C., is acting Export Agent at Montreal, on account of the illness of A. E. Cook. W. T. Robson has been appointed Adver-

tising Agent, vice C. A. Bramble, resigned. Office, Montreal.

F. O'Hara, heretofore bridge and building foreinan at Sherbrooke, Que., has been appointed Bridge and Building Master at Ottawa, succeeding E. Best.
W. Mellroy, heretofore C.P.R. ticket and pussenger agent and Daminion for agent

passenger agent and Dominion fix. agent at Galt, Ont., has been appointed C.P.R. town ticket agent at Peterboro, Ont., suc-

town ticket agent at Peterboro, Ont., succeeding T. K. Boddy, resigned.

J. W. Leonard, Manager of Construction Toronto and Sudbury branch, and President Guelph and Goderich Ry., is about to remove his office from the Union Station to 418 King St. West, Toronto.

F. S. Darling, Division Engineer of Construction, is about to be removed from Montreal to Toronto, where his office will be at 118 King St. West

118 King St. West.

W. Malcolm has been appointed C.P.R. ticket and passenger agent and Dominion Ex. agent at Galt, Ont., succeeding W. Me Hroy, his former chief, transferred to Peter

boro, Ont.

D. G. McKay, heretofore station master, has been appointed General Vard Master at Winnipeg, succeeding F. G. Arnold, trans-

ferred. W. R. Hogarth has been appointed station master at Winnipeg, succeeding D. G.

McKny, promoted.

run in this district passes through by he found to be fair agricultural a considerable extent, with large barde, but where not burnt over the regenerally small spruce, cedar and the latter generally dead, with blocks of heavier timber, suitable etc.

1111

right B.—The surveys in this disput to Jan last were conducted by the frequeers, who in Nov. commenced a line which showed heavy work.

From the information furnished in it was my opinion that there was bearent exploration through the community the continuance of location in the continuance of location in the second of of loca

country than those shown to have splored by the G.T.P.R. parties." In request of the Chief Engineer, M. or, Assistant Chief Engineer, who had been over considerable portions of A and B, made a report on the com-redistances by the Intercolonial Ry. Jean Chrysostome to Moneton and Transcontinental preliminary line, but difference wealld be made in this e supposing grades of 1% were used direction; and comparing the operdues of the several lines on the basis reight trains per day each way; and what the difference in the capital would be. Mr. Butler's report fol-The distance from Moneton to St tome, by way of the LCR, is 493.5. The distance from Moneton to St. tonic via the preliminary survey run for the Transcontinental Ry., The estimated shortening of the mary line that will be secured by the poution is 18 miles, making the dis-trom Moncton to St. Chrysostome by the Transcontinental line, 486 miles. rying at this estimated shortening, I of with the district engineers of dis-1, and B, and it is from their estimates he above distances are fixed. My al knowledge of the field work and based upon a recent examination of a through New Brunswick and a por-Quebec, would lead me to expect a trater shortening of these lines in the section. Hence, I have taken the sec at 486 miles for all comparisons as igth of the Transcontinental Ry, from on to St. Chrysostome. The esti-sheatening from the preliminary surnes, using 1% grades both ways, is tudes, making the distance from Monefreight trains each way, will haul in a year of 313 working days (length of line 493.5 miles), net pay tons 660x2, trains 2x10x313 days = 4,131,600 pay tons; and to haul this number of trains will make 493.5x2miles, 2x10 trains, 313 days, 3,089,310 train miles per year. The cost per train mile of the LCR. Ry, for 1903, as given in the report of the Department of Railways is 07.05. 97.65c., which cost will be used for all comparisons. Hence 3,080,310 train miles x 97.65c. =\$3,016,711.21, which gives the annual cost of operating the ten daily trains on the LCR. The Transconfinental Ry, low grade line will handle the same tonnage, with 7 trains eastbound and 5 westbound, although they will not be quite loaded to the full limit, the utio of eastbound to westbound traffic is taken at about 6 to 4. (Length of line 486 miles). Hence we get 486 miles x 12 (rains x 313 days = 1,825,415 train miles per year, which moneyed out at the same price per train mile of 97.65c. equals \$1,782,518.72, which gives the annual cost of operating the twelve trains on the Transcontinental Ry The annual operating cost of the LC.R. being \$3,016,711,21. The annual operating cost of the Transcontinental Ry. being \$1,782,518.72. Leaves a net annual savings in favor of the Transcontinental Ry, of \$1,234,192.49, which sum capitalized at 4% per annual equals \$30,854,812.25. And this amount is the increased value of the Transcontinental Ry. trains on the Transcontinental Ry amount is the increased value of the Transcontinental low grade line over and above the existing LC.R., on the basis of 10 daily trains each way over the LC.R. With in-creased business the difference will be much greater. For instance, on the basis of 10 fully loaded trains each way per day on the Transcontinental, we get 480 length line x 10×2 trains x 313 days 3.042,390 train miles, which will cost per year at 97,65c. \$2,070,801.54, and will transport 7,042,500 net pay tons. To do this business on the LCR, will require 34 daily trains, and we get 493.5 miles x 34 trains x 313 days 5,251,857 train miles, which will cost per year at 97.05c. \$5,128,409.06. The annual net savings in favor of the Transcontinental Ry, on this basis being \$2,157,544.52, which sum capitalized at 4% per annum, gives \$53,938,013, and this amount is the increased value of the Transcontinental low grade line over and above the existing LC.R., on the basis of ten daily trains each way on the Transcontinental Ry. The next comthe Transcontinental Ry. The next comparison required is, between the proposed V'_{C} grade on the Transcontinental Ry, and other lines, the train loads to be the same as the LCR as the grades are the same, the cost being affected by the shorter mileage. Length of line from Moncton to

above calculations no account has been taken of reduced operating cost for passenger trains. It is obvious that substantial savings will result from the use of lighter engines to haul the same passenger train. Less fuel, oil, etc., will be required, less wear and tear to track and bridges through lighter engines, better time and more uniform rates of speed may be maintained. In conclusion, the ebst per ton on the several lines, based upon the above figures, are as follows: -L.C.R., Moneton to St. Chrysostome per ton, 73 cents; Transcontinental Ry., 1% grade, Moneton to St. Chrysostome, per ton, 59 7-10 cents; Transcontinental Ry., 0.4% and 0.6% grade, Moneton to St. Chrysostome, per ton, 43 cents.

AUGUST 1905

Moneton and Winnipey shall be completed nearly as practicable at the same time. the specifications for construction are being surpared, a considerable portion of the work being completed. H. A. Wood, Assistant the Engineer G.T.P. Ry., is acting with the commissioner's engineers in arranging the specifications, etc., in conformity with the provisions of section seven of the agreement between the Government and the G.T.P. Ry confirmed by Chap. 71 of the Statutes of 1903. This section sets forth that in order to proteet the interests of the lessees of the Eastern Division, it is agreed that the specifications be submitted to, and approved of by the F.P. Ry, before the commencement of nork, and that the work shall be done according to the specifications, and shall be subject to the supervision and inspection of the chief engineer appointed by the Covpany. In the case of differences between these engineers an arbitrator is to be chosen by them, or appointed by the Chief Justice of the Supreme Court, if the engineers cannot agree on one.

In connection with the surveys upon the castern section of the Grand Trunk Pacific Ry, between Moncton, N.B., and Winnipeg, Man., which is to be constructed by the Transcontinental Railway Commissioners, the annual report of the Department of Public Works contains the following paragraph:

The despatching of so many engineering parties at the same time as the surveying work of the Transcontinental Ry, was being commenced has given employment to a large number of Canadian engineers. It has been found on the formation of parties that the engineering profession in Canada was fully equal to the demand made upon it for the professional equipment which is required for the explorations and studies necessitated by the extensive surveys for those two great works. All the engineering staff has been supplied by Canadian intelligence and professional training, and there is no doubt that the profession in Canada is fully able to render a good account of itself in the performance of the ardisons duties connected with the examinations now under way."

Answering questions in the House of Commons the Minister of Railways stated recently that no accurate information was available as to the progress of surveys. The Commission was directed to present an annual report, and, although interim reports had probably been sent in, no final reports had been presented to the department. The survey parties on the whole of the route from Moneton to Winnipeg are in the field. Reports of the engineers between Quebec and

recommendation of the chief and district engineers, and changes in same are made upon the recommendation of the chief of parties and the district engineers and approved of by the chief engineer. The engineers in charge of parties report to the district engineers, who report to the Chief Engineer, and he reports to the Board. Interiar reports are received from time to time from the parties in the field and district engineers.

The plans submitted to the Department of Railways by the G.T. Pacific Ry, provide for large terminals at both Port Arthur and Fort William, Ont., and on the Pacific coast. These plans, it has been explained, were deposited to secure available sites from which the final sites would be selected. of Railways, replying to a question in the House of Commons recently, stated that certain plans had been deposited, but they were The surveys are being prosenot available. cuted from Winnipeg to the coast by a large number of parties, and a report from A. S. Going, who has been in the mountains since August, 1904, states that nine passes are available for a line in northern B.C. These are Vellowhead, Peace River, Pine River, Smoky and North Smoky, Porcupine, two in the Red Deer district, and the Wapti pass. F. M. Morse, Vice-President and General Manager, and other officials are expected to setup, to Montreal April 1. from a trip to return to Montreal, April 1, from a trip to Victoria and intermediate points. At Port Arthur he stated that construction would be commenced in the spring at Winnipeg, as well as on the line from Lake Superior northerly. The money for the construction of the line, he said, had been raised in a lump sum, so that construction would not be delayed no matter what economic conditions the market may have in store. So far as the Lake terminals are concerned, the Government has approved of the expropriation of 1,600 acres of the Indian Reserve at Fort William, Ont., for this purpose, but has not taken any action in regard to the proposed terminal at Fort Arthur.

The visit of the Vice-President to the west was largely for the purpose of carrying on negotiations with the B.C. Government with the view of obtaining a subsidy in aid of the construction of the 480 miles of line to be constructed in that province. Reports state that the Provincial Government was asked to set aside approximately 7,000,000 acres of land as a subsidy, and that the proposition is not viewed with much favor by the Cabinet. Speaking at Victoria, Mar. 10, before leaving for the cast, Mr. Morse stated that it had been decided to construct the ine from cast to west as being the more eco-

Avanst 1905

National Transcontinental Railway.

The Commissioners had the tenders sub-mitted by various contractors for the two portions of the Eastern Division examined by their engineers, and motes by their engineers, and made a report there-on to the Government, April 3. The mat-ter was discussed on several occasions, and a decision was reached April 12, when it was announced that tenders had been accepted as follows:

DISTRICT B .- From the north end of the

DISTRICT B.—From the north end of the Quebec Bridge and Rv. Co.'s bridge, Quebec, to near La Tuque, Que, about 150 miles; Hogan and Macdonnell, Montreal.

DISTRICT F.—From Winnipeg, Man., to Peninsula Crossing, Ont., near the junction point of the Fort William branch of the G.T. Pacific Rv., about 245 miles: I. D. Mar Av.

point of the Fort William branch of the G.T. Pacific Ry., about 245 miles; J. D. MacArthur, Winnipeg, Man.

Britoge at Cap Rouge.—A steel viaduct of about 3,000 ft. long near Cap Rouge, Que. in District B, to be constructed in accordance with the general specifications of the Commissioners, and of the Department of Railways, Dominion Bridge Co., Montreal, at an approximate cost of \$320,000.

The length of time taken in awarding the

The length of time taken in awarding the contracts was due, apparently, to a difference of aginion between the Commissioners as to which tenders should be accepted. The majority of the Commissioners were of opinion that the contracts should go to the lowest tenderers, but the Chairman thought that these were too low, as they were considerably below the estimated cost as figured out by the Chief Engineer and his staff, and recommended the acceptance for the two divisions of the tenders of the G.T. Pacific Ry. Co. This view was over-ruled by the Government and the lowest tenders accepted. The amount at which the different tenders work out are:

C TALL C COLOR	
District B	
Hogan and Macdonald (accepted)	\$ 5,296,000
O'Brien and Mullarkey	5,530,000
G T. Pacific Ry. Co	
M. P and J. T. Duvis	6.667,000
M. Connelly, Despardins & Wilson	7.081,000
McArthur Construction Co	7,940,000
DISTRICT F-	
J. D. MarArthur	\$13.010,000
Pacific Construction Co.	13.028,000
G.T. Pacific Ry. Co	13,991,000
McArthur Construction Co.	17,048,000
STREE VLADITET-	
Dominion Bridge Co. (No. 2) accepted .	\$ 318,000
Dominion Bridge Co (No. 1)	329,000
Locomotive and Machine Co. of Montreal.	331,000
Canadian Bridge Co.	343,000
G.T. Pacific Ry. Co	347,000

Phoenix Bruige Co. Phenis Bridge Co. 348,000

The contracts cover the grading and all other work, except the steel rails and ties, which are to be supplied by the Commissioners, and for the completion of the work by Oct. 1, 1907. Tenders for about 50,000 tons of 80-lb, steel rails, and 2,500 tons of angle irons, etc., will shortly be asked for by the Commissioners for these sections of the line, for delivery this season. As the contractors have to purchase their materials and supplies as far as possible in Canada. contractors have to purchase their materials and supplies as far as possible in Canada, it is expected that the order for the steel rails, etc., will be placed in Canada if the mills can supply them at the time they will be

required.
In connection with the Winnipeg-Peninsula Crossing section of the work, it has been announced in Winnipeg that work will be started at fear points—five miles east of Winnipeg, the second at Molson, the third north of Kenora on the Winnipeg River, and the fourth north of Dinorwic—immediate—the second started the process of th by and at other points which can be reached from the C.P.R. line, as speedily as they can be arranged for. Work at the Quebec end be arranged for. Work at will also be started at once

A return presented to the House of Comnons, April 6, contained a report from H. D. Lunsden, Chief Engineer of the Commission, in reference to the two routes suggested for the line through New Brunswick.

Mr. Lumsden recommends the adoption of what is known as the back route, which is about 28 miles shorter, and will cost about about 28 miles shorter, and will cost about \$\$1,500,000 less to construct than what is known as the river route. The back route opens up a country well adapted for settlement and at present without transportation facilities, while there are lines of railway tapping and traversing the valley of the St. John River, through which the river route has been surveyed. has been surveyed.

GRAND TRUNK PACIFIC RAILWAY.

In a report to the Minister of Railways, C. Schrieber, Consulting Engineer to the Department, reviews the progress made in survey work and construction on the line survey work and construction on the line west of Winnipeg, Man. The route between Winnipeg and Portage la Prairie, 58 miles, had been approved and location surveys were in progress. Of the line under contract between Portage la Prairie and the Touchwood Hills, 275 miles, the contractors had graded 55 miles, and put in a number of culverts. The line from Touchwood Hills to Edmonton, Alta, 490 miles, was under contract, but the Government had withheld approval of the plans for the last 45 miles. The reason for this was that it showed a line crossing the Saskatchewan River at Clover Hill bar, '12 miles east of Edmonton, while the Government desired, if possible, to have a line through Stratheoun, crossing the a line through Strathcom, crossing the Saskatchewan at that point, and so into Edmonton. Further surveys were being made to ascertain if a sufficiently favorable line could be obtained to allow of this change to be made. Preliminary surthis change to be made. Preliminary surveys had been made from Edmonton to the end of the prairie section, but no route map had been submitted for approval pending a decision as to what pass through the Rocky Mountains would be adopted. Exploration had been made of several passes, but sufficient data had not been obtained to enable a decision to be reached.

enable a decision to be reached.

So far as the portions of the lines under contract are concerned, the McDonald-McMillan Co, have got a number of gangs of men at work between Portage la Prairie and the Touchwood Hills. The Canadian White Co, have got their outfit ou their contract between the Touchwood Hills to contract between the New York work. west of Saskatoon, Sask., and active work was expected to be started by the end of April. On the section from Saskatoon to Edmonton, contractors Foley Bros., Larson & Co!, 20 cars of grading outfit were on the way to Saskatoon April 25, from which point it is proposed to start grading west-erly. Superintendent of Construction Fetters erly. Superintendent of Construction Fetters stated that there would be 1,000 teams at work by the end of April, and by the end of May it was hoped to have 3,000 teams and 5,000 men on the line. As soon as the work from Saskatoon to Battle River was work from Saskatoon to Battle River was got in hand, the section between Battle River and Edmonton would be started, operations being gone on with from the Edmonton end. The Saskatoon-Battleford River section, about 200 miles, comprises some heavy work, particularly in the Eagle Hills country, almost due south of Battleford. There will be one large steel bridge across the Saskatchewan River at Saskatoon, and a wooden bridge across the Battle River, the other bridge work being light.

F. W. Morse, Vice-President and General Manager G. T. P. Ry., said in an interview at Montreal, April 17, that a satisfactory route had been surveyed from Edmonton to the foothills of the Rocky Mountains, about 200 miles, and that contracts would

about 200 miles, and that contracts would be let for its construction at an early date. Referring to the work in the mountains, be said that 12 survey parties were at work in the passes, and that until their reports had been received and considered, it would be impossible to say anything as to the further location of the line,

Canadian Railway Contractors in the U.S.

The Cornwall Freeholder points out that a surprising proportion of the great railway contractors of the continent are Glengardy or Stormont men. J. D. McArrhur, who has recently secured the contract for building the western section of the Grand Trunk Pacific Ry., aggregating over \$13,000,000. is a Lancaster man. By June I, he will have 10,000 men on his pay-roil. A. R. Macdonald, who, with his partner, Mr. Hogan, is to build four or five million dollars worth of the Government section, hails from Williamstown. D. D. McRean, who has just finished the Harlem tunnel at New York, an enormous work, is a Lancaster boy. James A. McIntosh and Dunald McIntosh, of Milwaukee, Wis. were recently awarded a contract for building 1,500 miles of road for the Chicago, Milwaukee and St. Paul Ry., the price of which was nearly \$50,000,000. This is said to be the largest contract ever given to one firm for railway building on the continent of America, or in the world for the matter of that. Their native place is St. Andrew's, Cornwall. Besides these there are the Grant brothers of California, W. A. Grant of Illinois, and the McDongalls of Milwaukee, all representatives of that Celto-Canadian element that has made so distinct a mark in the Glengarry-Stormont settlements of Ontario. There must be something in the mental equipment, as well as in the big, vigorous frame of the people of that section which fits them for this sort of work.—Toronto Globe.

National Transcontinental Railway.

The Commissioners of the Transcontinental Ry, will receive tenders to June 7, for 65,000 tons of 80-lb, steel rails, open hearth or Bessener, at the option of the Commissioners, together with the necessary splice bars, boits and nuts, spikes, nut locks and 1,545,000 ties. Tenders are to be accompanied by a marked cheque for 16% of the amount of the tender, and the rails, etc., are to be delivered in such quantities and at such places as the Commissioners may direct. The rails, etc., are for use on the line from near Quebec to La Tuque, Que, and from Winnipeg, Man., to Peninsula Crossing, Ont.

A report from Ottawa states that it is expected that the Commissioners will be in a position to ask for tenders for the construction of the Quebec-Moneton section of the National Transcontinental Ry, early in July. The Commissioners of the Transcontinental

National Transcontinental Ry, early in July,

GRAND TRUNK PACIFIC RY

Track-laying was commenced at Portage la Prairie, Man., May 2, and a number of sidings have been put in in order to facilitate sungs have been put in in order to facilitate the movement of construction trains and to store steel rails and other supplies which are being delivered. Tracklaying on the main being delivered. Tracklaying on the main line is expected to be commence at an early date.

JUNE 1906

Ottawa despatch states that it is likely the contract will be divided between the Algoria Steel Co., Suult Ste. Marie, Ont., and the Dominion from and Steel Co., Sydney, N.S.

The contractors for the 150 miles of line between the Quebec Bridge northern approach and La Tiuque, have let a sub-contract to M. P. Davis to construct 50 miles of the line from the Quebec Bridge towards La Eugue, and will themselves do the work on the other 100 inites. Mr. Davis started work on firse 6 at the bridge. The general contractors, *Hogan & Macdonald, who have associated M. J. O'Brien with them, are also at work, having started at Reid's, on the Great Northern Ry, and are working in both directions. They also propose starting work Great Northern Ry, and are working in both directions. They also propose starting work at La Tuque. Considerable progress is reported upon construction one the 245 miles from (minipeg easterly. Gay Campbell, Ottawa, has been given a sub-contract for five miles of rock work, and sub-contracts are also reported let to A. Herbert, 20 miles prairie work; W. Wardsop, 15 miles; F. W. Smith, transfer, and fall and the progress of the contracts of the contract of th Smith, two miles of solid rock culting

GRAND TRUNK PACIFIC RAILWAY

A meeting of shareholders was held in Montreal, June 14, to ratify an issue of \$15, 000,000 of debenture stock, under the agreement with the Government. The act authorizing the issue of \$25,000,000 has been passed

by the Dominion Parliament, and the resolu-tion is a formal one necessary to ratify the by law providing for the issue.

The contractors for the line from Winnipeg to Portage la Prairie, Man, are the McDonald-McMillan Co, who are well advanced with the grading on the Portage la Prairie-Touchwood Hills portion. A start has been made upon the line near Winnipeg, and a sub-contract has been let to McIntosh Bros., Petrel, Man., who also have started construction. Tracklaying is using gone on with from Portage la McIntosh Bros. The will see the Prairie westerly. The rails, 80-lb, to the yard, are being delivered at Portage la Prairie yard, are being delivered at Portage la Prairie by the Canadian Northern Ry., and it is expected to get in 50,000 tons by Sept. 1. The Canadian White Co.; Montreal, which has the contract to grade from the Touchwood Hills to Saskatoon, had its plant delivered at the beginning of June, and has several gangs of men actively engaged, while Foley Bros., Larson & Co. are rushing work from Saskatoon to Edmonton. The Dominion Government engineers, who have been going over the route at the Edmonton end, state that the proposed gradient into that city by way of Strathwona is as favorable as that by the Clover Bar way, and that a better gradient into Strathwona can be obtained by the south of Cooking Lake than by Clover Bar. The of Cooking Lake than by Clover Bar. The Government will decide upon the route to be adopted at an early date. The location plans and profiles for practically the whole of the route to within about 30 miles of Edmonton have been approved by the Railway. Commissioners, as well as by the Government, Westof Edmonton surveys are still in progress, and at Prince Rupert, on the Pacific coast, the preliminary work of laying out the new townsite, etc., is in progress.

An order for 150,000 tons of steel rails for

the G.T. Pacific Ry, is reported to have been placed with the Dominion Iron and Steel Co.,

GRAND TRUNK PACIFIC RY BRANCHES.

GRAND THUNK PACIFIC BY BRANCHES.

The G.T.P. Ry interests have a bill before the Dominion Parliament seeking the incorporation of a company with the title of the Grand Trunk Pacific Branch Lines Co. for the purpose of constructing branch lines. The various lines proposed raised considerable discussion, when the bill was before the House of Commons. Railway. Committee and the schedule of bines finally approved of follows:

(1) From near Edmundston, N.B., to Riviere du Loup, Que., 81 miles: (2) A line into Montreal, via Joffette, Que., about 250

National Transcontinental Railway.

In the House of Commons, June 12, the Minister of Railways made some explanations in regard to the vote for \$110,000,000 which was asked for the construction of the line from Moncton, N.B., to Winnipeg, Man. The Commissioners for construction were in a position to ask the Government to approve of the route from Moncton to Miramichi, or from Moncton to Nashwaak, whenever the from Moncton to Nashwark, whenever the back route or the river route should be decided upon. An order-in-council would then be passed approving of the whole route and the line from Moncton to Quebec would be pit under contract. It was expected to have this section completed as soon, as the Quebec-Winnipeg section. The preliminary and location surveys had been made between Quebec and Winnipeg, the cost being about \$1,000,000, and the complete revision of these surveys would cost an additional \$900,000. A portion of the surveys which the G.T. Pacific Ry, made east of Winnipeg, which cost the company about \$1,000,000, had been taken over by the Government for \$550,000. The gradient between Moncton and Winnipeg. The gradient between Moncton and Winnipeg would be 4-10 of 1% eastbound, and a maximum of 6-10 of 1% westbound, with a maximum curvature of 4°. The total distance would be about 1,800 miles, of which 395 miles are at present under contract.

Tenders are under consideration for the supply of 65,000 tons of steel rails, with the necessary fastenings for the same, and an

Juny-1906

The National Transcontinental Railway.

Hugh D. Lumsden, Chief Engineer, writes as follows: As the value of a railway as means of transportation depends largely upon its location, neither time nor money is being spared in securing for the Transcontinental line the best route available. The Great Lakes will for all time remain the favored freight route from the West to tidewater, but when the lakes are frozen, if the crops increase as they have increased for the post decade, there will always be millions of bushels of wheat awaiting shipment in the West. In order to haid wheat at a profit two thousand unles from the wheat-fields to the Atlantic, it is absolutely necessary that Hugh D. Lumsden, Chief Engineer, writes

West. In order to hair wheat at a profit two thousand unles from the wheat-fields to the Atlantic, it is absolutely necessary that the road be as free as may be from heavy grades and excessive curves. While the entire line is not yet definitely located, enough field-work has been done to demonstrate beyond a doubt that the Transcontinental will be, as far as grades go, one of the best laid lines across the continent. From the great wheat-fields of the West to tidewater on the Atlantic the grades going enst will, in all probability, not exceed 0.4 of a foot per 100 ft. This will mean that a modern locomotive will handle 42 cars between Winnipeg and Moneton.

The first surveys on the government section under the commissioners were commenced in October, 1904. The first contracts from near Winnipeg to a point 245 miles cast thereof, and from the north end of the Quebec Bridge for 150 miles westerly, a total distance of 305 miles, have been awarded. Inasmuch as the prime purpose of the road is to relieve any possible congestion of grain at Winnipeg, the government is doing everything in its power to facilitate the construction of that part of the line from Winnipeg to Superior Junction, where it will be met by a branch line now being built by the Grand Trunk Pacific Ry. Co. north-westerly from Fort William to connect with the main Transcontinental line. By this means it is expected that the new road may be built in time to participate in the transportation of the crop of 1907. As one evidence of the roaditive with which the met of the participate in the transportation of the crop of 1907. As one evidence of the roaditive with which where evidence of the roaditive with which where the met of the transportation of the crop of 1907. As one evidence of the roaditive with which where the met of the crop of the packed of the roaditive with which where the met of the packed of the roaditive with which when the connect with the from Fort William to connect with the main Transcontinental line. By this means it is expected that the new road may be built in time to participate in the transportation of the crop of 1907. As one evidence of the rapidity with which the output of the Western fields is growing, it is stated that in 1901 the G.T.R. received at its Lake Haron ports 9,602,000 bush, of wheat. Last year the receipts reached 29,764,000 bush. If there were any doubts—assuredly there were many—as to the ability of Canada to support another ocean to ocean railway, these doubts must be disappearing, from the fact that the annual arrivals of immigrants has increased fivefold within the past eight years, and that the wheat crop has doubled since the day Sir Wilfrid Laurier made his famous speech on the need of another transcontinental railway. The whole line is being built as rapidly as may be consistent with good building, but with the best we can do it is evident that the traffic will be ready for the road by the time the railway is prepared to take care of the traffic.

From an engineering standpoint the obtaining of a suitable location through the entire country from the St. Maurice River to within 70 miles of Winnipeg has been tedious and expensive, owing to the fact that fittle was known of the country through which it passed, there being only one or two points where any surveys had heretofore been run, and though explorations had been made up a number of rivers crossed by the Transcontinental Ry., little or nothing was known of the country lying between these streams, which generally run at right angles to the course of the railway. These surveys had per proposed route in the Provinces of Quebec and Ontario where the soil is excellent (generally a clay loam), and where a krige number of settlers can find suitable hones. The timber con-

where the soil is excellent (generally a clay loam), and where a large number of settlers can find suitable homes. The timber con-

sists of spruce, birch, poplar, jack-pine, tamarack, and small cedar.

The heaviest and most expensive portions on the route of the Transcontinental Ry, will probably be on the upper St. Maurice River insthe Province of Quebec, and through the portion of country between the morth end of Lake Nepigon and the crossing of the C.P.R., say 70 miles east of Winnipeg, where the amount of solid rock that will have to be moved will be large. The bridges will be numerous, but with the exception of one or two steel viaducts in New Brunswick and three or four in Quebec, they will not be very large. The St. Lawrence River will be crossed about six miles above the city of Quebec by a bridge 3,270 ft. long, including a centre cautikever span 1,800 ft. long over the main channel, and leaving a clear headway of 150 ft. above the water. This bridge has been in the course of construction by the Quebec Bridge and Ry. Co. for the past four years. Within the past three years the Ontario Government has been constructing a railway from North Bay northerly, and it is now nearly completed to the watershed between the St. Lawrence and Hudson Bay waters, a distance of, say, 160 miles. It is probable that this railway in the near future will be extended to a junction with the Transcontinental Ry, near where the latter crosses the Abitibi River, a farther distance of, say, 80 miles. Other branch lines to tap the Transcontinental have been projected, and some of them may eventually be constructed and form valuable feeders to the main line. The entire work is being pushed as rapidly as circumstances will permit, and should be completed well within the rime specified.

At the last session of the Dominion Parliment \$10,000,000 was voted on account

At the last session of the Dominion Parliament \$10,000,000 was voted on account of surveys and construction of the National Transcontinental Ry.

The Commissioners have awarded contracts for the supply of rails and fastenings for the two sections of the line now under construction to the following: Dominion Iron and Steel Co., Sydney, N.S.—23,000 tons of rails at \$34 per ton, delivered at Quebec; 10,000 tons of rails at \$34.50 per ton, delivered at Port Arthur, Ont., Algoria Steel Co., Sault Ste. Marie, Ont., 32,000 tons at \$34 per ton delivered at Port Arthur, On. Toronto Bolt and Eorging Co., Swansea, Ont., 202,800 lbs. bolts at \$3.44 per 100 lbs.; 728,900 lbs. spikes at \$2.55 per 109 lbs., delivered at Fort William or Port Arthur, Ont. The Commissioners have awarded

Tenders for the supply of 535,000 ties for renders for the supply of 905,000 test for the current year's requirements are under consideration, and tenders have been asked for to be submitted by Sept. 4, for 1,010,000 ties for 1907 requirements.

GRAND TRUNK PACIFIC RY.

The G.T. Pacific Ry.

The G.T. Pacific Ry. was required by the act of 1903 to deposit \$5,000,000 in cash as security for the performance of its contract in connection with the construction of the National Transcontinental Ry. By an act passed at last session the Dominion Parliament has authorized the Government to release the cash in whole or in part, and to

passed at last session the Dommion Parliament has authorized the Government to release the cash in whole or in part, and to accept in lieu thereof approved securities.

An act was also passed last session of the Dominion Parliament authorizing the company, with the approval of the shareholders, to issue perpetual or terminable debenture stock to the extent of \$25,000,000 or its equivalent in sterling. The debenture stock may be guaranteed by the G.T.R., which shall rank as a prior charge on all G.T.R. securities, except its 4% preference stock; the proceeds of the issue are to be devoted to the provision of equipment referred to in sec. 2, chap. 24, 1904. Authority is also given to guarantee the bonds of the G.T. Pacific Branch Lines Co., and

August 1906

National Transcontinental Railway Construction.

Struction.

The viaduct at Cap Rouge, Que., on district B of the eastern section, will have a total length of 3,335 ft., and will consist of 33 towers, each 40 ft. in length; 29 spuns of 60 ft. each, one span of 125 ft. and one span of 136 ft. The viaduct will be a single track one, the girders being spaced 9 ft, centre to centre, and the base of rail will be 165 ft. above high water in Cap Ronge River. The weight of the steel superstructure when creeted will be about 4,200 tons. The Dominion Bridge Co., Montreal, hus the contract.

The Commissioners have had under consideration tenders for the construction and erection of steel superstructures and, floor system, with ties and guard rails complete, for bridges at River Aux Pommes (Sept. 1), River Jacques Cartier (Nov. 1); crossing C.P.R. (Dec. 1): River Portneuf (Dec. 1): River St. Anne (Jan. 1, 1907); River Noir (Feb. 1, 1907); River Charest (Mar. 1, 1907), and River Batiscan (April 1, 1907). The dates in brackets are the dates upon which the superstructures are required to be ready for shipment.

A report from Ottawa Aug. 29, stated that the tenders of the Dominion Bridge Co., Mon-treal, and of the Locomotive and Machine Co., of Montreal, were the lowest, and that the contracts would probably be divided. These bridges are for the section of the line between Quebec and Ln Tuque, Que, now under

GRAND TRUNK PACIFIC RY.

C. Schrieber, C.M.G., Consulting Engineer to the Department of Railways, returned to Ottawa, Aug. 23, having made a lengthened trip of inspection over the route of the G.T. Pacific Ry. In an interview he said:

"I am satisfied that in the G.T. Pacific Ry when it is completed, the people of Canada will have the cheapest transcontinental line in existence. From the Rocky Mountains to

in existence. From the Rocky Mountains to the Atlantic seaboard it will show a maximum the Atlantic seabourd it will show a maximum grade of 4-10ths of 1%, ensthor id, and 5-10ths of 1% westbound. The con pany itself expects to obtain an equally level location across British Columbia to its Pacific terminus. I am satisfied that it will get through with a maximum gradient not exceeding 1%, and anyone who knows the first thing about railway building and the satisfies. maximum gradient not excreeding I^{*}L, and anyone who knows the first thing about railway
building and the existing routes through the
Rockies can readily appreciate what that
means, especially in the handage of heavy
traffic. The G.T.P. Ry, has 16 survey parties
now in the field in British Columbia and the
company will be in a position to let some
contracts this season on this section, probably
at the Port Simpson end, as it is the most
occessible. I drove 700 miles across the
prairies from Portage la Praifie to Edmonton
following the located route of the new line.
From 100 to 120 miles of this will be laid
with rails this feit, and by the end of next
year the G.T.P. ought to have its track
through to Edmonton. Their greatest difficulty lies in the scarcity of labor. In one
stable I saw 20 horses file because it was impossible to secure drivers to handle them.
It is simply wonderful the way settlement is
already flowing in along the route that the
new line is to follow. Shacks of all sorts are
being put up and land brought under cultivation. The company has truly secured an
excellent line across to Edmonton; it is pracically a straight line all hie way from Wintion. The company has truty second excellent line across to Edmonton; it is practically a straight line all he way from Windows

tically a straight line and the way in tipeg."
There are reported to be over 12,000 men at work on different sections of the line, and that satisfactory progress is being unade with the work under contract. On the Lake Superior branch from Fort William to Lake Superior function, Out., construction trains are being operated for short distances, and over 100,000 ites have already been delivered. The equipment for two tracklaving machines has been received at Fort William Between Winnipey and Edmonton the con-

tractors' are pushing work ahead with the greatest possible speed, but they are some-what hampered by the scarcity of labor.

greatest possible speed, but they are somewhat hampered by the scarcity of labor.

An agreement was reached at a meeting of the Edmonton City Council, Aug. 18, by which, in return for a bonns of \$100,000, the Edmonton City Council, Aug. 18, by which, in return for a bonns of \$100,000, the G.T.P. undertakes to establish within three miles of the public offices, its yards, workshops and other terminal facilities, and to creed a station south of the Canadian Northern station, if a union station could not be arranged for. The city also agrees to purchase certain right of way required, which it is estimated will cost another \$60,000.

Plans have been filed for 77 miles of line west of Edmonton, Alta., and tenders will shortly be asked for grading on this distance F. M. Morse, Vice-President, proposes to go over the projected route through the mountains as far as the coast during the fall, and upon his report, on his return, the final selection will depend. A survey is being made by H. S. Sprague and A. L. Kepper through the Caribon country, to determine whether then is a satisfactory route through it, instead of the prescript projected one around it. If such a route can be located it will materially shorter the distance between Winnipeg and the Pacific coast. Survey parties are also working east and west from Lorne Creek, on the Skeena River, and from Morricetown in the Bulkeley Valley.

The Dominion Parliament at its last session passed an Act authorizing an extension of

Bulkeley Valley.

The Dominion Parliament at its last session passed an Act authorizing on extension of the Pacifi Northern and Omineea. Ry., and authorizin the construction of a railway from the junction of the Skeena and Copper rivers to the function of the Bulkeley and Telkwa river. It is likely that the first construction in emection with the G. T. Pacific Ry on the Pacific coast will take place under this charte (Aug., pg. 473).

September 1906

The other portion of the line under contract is from Winnipeg, Man., easterly to Lake Superior Junction, where it connects with the under construction for the Grand Trunk Pacific Ry., known as the Lake Superior

GRAND TRUNK PACIFIC RY.

CRAND TRUNK FACIFIC RY.

C. M. Hays, President, and F. M. Morse, Vice-President, G.T. Pacific Ry., left Montreal, at the end of Aug, on a trip of inspection. After looking over the work in progress on the Lake Superior branch in the vicinity of Fort William they went to Winnipeg, reaching there Sept. 2, where it was stated by the Vice-President that there was no foundation for the report that the company was arranging to secure a right of way over the Carafor the report that the company was arranging to secure a right of way over the Canadian Northern Ry. between Wimipeg and Portage la Prairie. On reaching Portage la Prairie, the President and Vice-President drove over the right of way to Edmonton. Alta., which was reached Sept. 20. The progress of the work at different points was examined, and the suggestions for branch lines at several places were looked into. Speaking of the trip it was stated that 50% of the grading between Portage la Prairie and Saskatoon was completed, and 30% was done between Saskatoon and Edmonton. There is considerable scarcity of labor, but notwithstanding, it is expected that all the heavy work will be completed this fall, leaving practically nothing to do next year except to practically nothing to do next year except to lay the sized and do the ballasting. From Edmoniton they proseeded over the surveyed rouses into the Rocky Mountains with a view of corning to some decision as to the route to be added. of couring to some decision as to the route to be adopted. It is expected they will pro-ceed to Vancouver, B.C., and thence to Prince Rupert, the Pacific Coast terminal, by steamer, H. Phillips, Secretary, and B. B. Kelliher, Chief Engineer, were also of the party, which is expected to return to Montreal about Oct.

Reports from Winnipeg state that it has been decided to erect shops for the G.T. Pacific Ry, about five miles east of the city; that

cific Ry, about five miles east of the city; that a site has been selected; that Guibalt & Co. will be given the contract, and that work will be started immediately.

At Portage la Prairie, the company has paid duty on an importation of 54,500 tons of steel rails from the United States for the line westerly from that point. Tracklaying is being gone on with on the line from Portage in Prairie to the Touchwood Hills, the grading contract for which is being carried out by McDonald, McMillen & Co. On the next section of 140 miles to near Saskatoon, for which the Canadian White Co. has the contract, it is expected to have the grading comwhich the Canadian White Co, has the contract, it is expected to have the grading completed by the end of the year. The route from Saskatoon to Edmonton, 210 miles, is well covered with men by the contractors, Foley Bros. & Larson.

Survey parties are in the field going over routes for branch lines from Yorkton. One of these branches is intended to connect with Regina; and another to Hudson Bay. The company has secured about 800 acres of land near Saskatoon, which is described on the register as the G.T.P. townsite. When F. M. Morse, Vice-President, was at Saskatoon, Sept. 17, he stated that it was proposed to locate a spur line into the town. The company has also survey parties in the field locating a line into Calgary, Alta. The Edmonton. Alta., City Council has ratified a by-law granting the company a bonus of \$100,000 and a right of way into the city, on condition that it establishes divisional terminals there. als there.

Reports from the Pacific coast state that large contracts for ties and other timber have been placed and that the saw mills at Port Simpson and Essington, B.C., have large railway orders on hand. J. H. Bacon, the company's harbor engineer, has returned to

National Transcontinental Rallway

The survey parties which have been working between Quebee and Moncton, N.B., have practically completed their work, and their reports were expected to be in the hands of the Commissioners Sept. 30. It is stated that the Commissioners expect to be in a position to ask for tenders for the grading of this portion of the line during Oct.

Construction work upon the section from Quebec to La Tuque, about 150 miles, is reported to be progressing satisfactorily. For the first 70 miles from Quebec the line basses through a more or less settled country,

For the first 70 miles from Quebec the line passes through a more or less settled country, but beyond that the route is through the forest. In addition to the Cap Rouge viaduct there will be a number of steel bridges on this section. For the superstructure of these the Commissioners have just let contracts. The Dominion Bridge Co., Montreal, wifl supply the steel for the bridges at Batiscan, Jacques Cartier, Riviere Charest and the crossing of the C.P.R. in Portneuf country, and the Loconotive and Machine Co. of Montreal will supply that for the bridges at Riviere Noir, Riviere aux Pommes, Ste. Annes and Portneuf. Portneul.

The Commissioners are preparing to invite tenders for the grading and other work upon about 200 miles running east and west from Lake Abitibi. It is expected to get tenders Lake Abitibi. It is expected to get tenders let sufficiently early to permit of much of the material to be brought in during the winter from the end of steel on the Temiskaming and Northern Ontario Ry. This line is at present under construction to a point about 40 miles south of Lake Abitibi; but it is said that the Ontario Government intends to push forward its construction to the lake as early as possible. as possible.

National Transcontinental Railway

A conference between the Commissioners for the National Transcontinental Ry, representatives of the other railway lines having interests in Quebec, the marine interests, and others, for the purpose of discussing the question of railway terminals, etc., at Quebec, was held in that city, Oct. 12. The matter was fully discussed and a committee was appointed, consisting of one representative from each of the railway interests, steamship companies, presidents of Harbor Commission and the Board of Trade, E. C. Fry, Lloyd's agent, Mayor of Quebec, Quebec Bridge and Railway Co. The Chairman of the N.T. Ry, Commission submitted the following general suggestions for the committee to work upon:

That the south shore roads—the O.T.R.,

son summitted the following general singlestions for the committee to work upon:

That the south shore roads—the G.T.R., 1.C.R., Quebec Central and Delaware & Hudson, and also the G.T. Pacific and Canadian Northern, should come into the city from the bridge by way of the covers; docks and freight yards being built between Diamond Harbor and Sillery, and a union passenger station for these roads at Champlain market, adjacent to the proposed new ocean steamship docks, with an elevator to the upper town.

That the C.P.R., Quebec Railway, Light & Power Co. and Quebec & Lake St. John roads, if they prefer to do so, retain each their present stations, they being well situated for their business, all being in the centre of the city and nearer to their clients than they would be at Champlain market.

That a track connection be built between St. Andrew St., the Louise docks and the Champlain market, either along Dalhousie.

That a track connection be built between St. Andrew St., the Louise docks and the Champlain market, either along Dalhousie St, or preferably on the river front, open to all railways upon the same terms.

That a track connection be made between the Louise Docks, Limoilou and the St. Lawrence bridge along the St. Charles valley, open to all railways upon the same terms.

That all railways to or from Quebec be put upon the same footing as regards the use of the bridge across the St. Lawrence and its approaches.

approaches.
That all these railways shall each have a tractive in the Terminal Company

That all these railways shall each have a representative in the Terminal Company which is to carry out these works.

The committee selected subsequently met ander the chairmanship of R. Andette, Vice President Quebec Bridge and Ry. Co., and appointed A. E. Doucet, E. A. Houre, and St. C. Boswell, to make plans carrying out the suggestions to lay before the committee for discussion, and the further consideration of the N.T. Ry. Commissioners.

The Commissioners have completed an inspection of the work in progress upon the section of the line between Quebec and La Tuque, going over a considerable mikeage between Quebec and Reed, and some mikes west of the latter point. Steel rails for this section

of the line are being delivered at Quebec by the Dominion Steel Co., Sydney, N.S. It is expected to have about 40,000 tons of rails delivered by the end of the year, and distrib-

delivered by the end of the year, and observed used along the route.

The question of the location of the terminals in Winnipeg, for the National Transcontinental Ry., and the G.T. Pacific Ry., is under consideration by the Commissioners, who arrived in Winnipeg, Oct. 18, for the purpose of discussing it with the other railway and local latterers beginning. interests involved

GRAND TRUNK PACIFIC RY.

discussing it with the other railway and local interests involved.

GRAND TREESE FACIPIC RV.

The Ontario Railway and Municipal Board visited Fort. William, Ont., Oct. 6, for the purpose of looking-into the question of the location of the Lake Superior Branch, C.T. Pacific Ry., from that town to the main line of the National Transcontinental Ry. from Moncton, N.B., to Winnipeg. The route of the line between Fort William and Port Arthur, and the location of the terminals in these towns were inspected, and evidence was given showing that the valley of the Kaministikwia was the only available route westerly and northerly, and that it was therefore not possible to avoid paralleling the C.P.R. for about 70 miles. The Board reserved decision upon the various questions involved. The investigation was rendered necessary by reason of the fact that the Ontario Legislature voted a grant of 2,000 acres of land a mile to taid the construction of this branch.

Collingwood Schreiber, consulfing engineer to the Department of Railways, arrived in Winnipeg Oct. 9, for the purpose of making an inspection of the construction west of Portage la Prairie, Man. He said at Winnipeg. "The construction work this summer has been hampered a little by a lack of labor, the allround demand for men on farms and railways being greatly in excess of the supply. The various companies which have the western sections under construction, have all made very favorable progress in the face of this adverse circumstance, however, and there has been practically no shortage of material, if a lack of thes during a few weeks in the summer is excepted."

Tracklaving was reported to be going on west of Portage la Prairie and Saskatoon, and over 30% between Saskatoon and Eduonton was reported to have been completed Oct 30. The labor situation has been somewhat relieved by the return of the harvest hands from field work, and the arrival of men from Scotland, specialty engaged for work on the line.

The contract for the bridge over the North Saskatchewan River at

The taxpayers of Edmonton, Alta., have purchase of the right of way for the purchase of the right of way for the C.T.P.

purchase of the right of way for the G.T.P. Rv. in the city.

C. M. Hays, President: F. Morse, Vice-President, and H. Phillips, Secretary, G.T. Pacific Ry., returned to Montreal, Oct. II. From their trip over the route of the line from Portage la Prairie westerly, and a run from Vancouver to the Pacific Coast terminus at Prince Rupert. At this point the company is clearing 1,000 acres as a town site, and is erecting an hotel at a cost of about \$40,000. It is intended to start work at once upon the erection of wharves, aggregating about 2,000. R. in length. It was the company's intention, said Mr. Hays, at Vancouver, B.C., to construct a line to it some time or other, but it was impossible to say when.

National Transcontinental Rallway.

Survey work upon the section easterly from Quebec to Moneton is being completed, all the parties with one exception having reported. The location of the line between Quebec and Grand Falls, and between Gripman and Moneton, has been completed, and the first location surveys between Grand Forks and Moneton have been made. The question of the route between these two points has not been finally decided. The arrangement of the terminals at Quebec is being considered, and the commissioners have been inspecting various blocks of land required for the terminals, as well as for required for the terminals, as well as for the railway connections.

is being considered, and the commissioners have been inspecting various blocks of land required for the terminals, as well as for the railway connections.

In connection with the terminals in Winnipeg, it is reported that the arrangement made with the Canadian Northern Ry, includes the construction of the terminals by that company, and the payment by the commissioners and the G.T. Pacific Ry, of an annual rental of \$65,000 a year therefor.

The route of the line west of Winnipeg has been the subject of considerable discussion at Ottawa, and as provisionally approved the line will run through the southerly end of Tuxerdo park, Winnipeg, aeross the C.P.R. Gretna branch, along Grant and Woadward Ave., paralleling the latter to Pembina Road, where a junction will be made with the Canadian Northern Ry, track. The Government has approved of the plans for 25 miles of the route easterly from Portage la Prairie. The question of terminals at Edmonton was also discussed. The Minister of Railways desires that union terminals be arranged for. The Canadian Northern Ry, as the pioneer line in the city, desires that its terminals be made use of. An arrangement as to terminals has been made between the G.T. Pacific Ry, and the Edmonton City Council, and the Minister of Railways says unless the three companies can agree upon joint plans, the department will approve of this agreement. The company has decided to use the Vellowhead Pass for its line from Edmonton to Prince Rupert, B.C. The reports of the engineers show that a line with a gradient of 21 ft to the mile can be obtained.

Thos. Dunn, who returned to Vancouver, B.C. from Prince Rupert, Nov. 1, in an interview said: "Engineer Pillsbury, of the G.T.P. Ry, has 70 men at work laying out the townsite will be commenced right away. Lumber for the construction of the houses which the railway company will build at Prince Rupert had commenced to arrive.] Moore, locating engineer of the G.T.P., is surveving the route the line will take on Kaien Island. There are five survey partie

DECEMBER 1906

National Transcontinental Railway.

The report of the National Transcontinental Railway Commission for the year ended June 30, was presented in the House of Commons Dec. 10. The fotall expenditure for the year was \$1.831.263, of which \$352,191 was paid to the G.T. Picific Ry, for surveys from Winnipeg eastward! There were 18 casualties in the survey perfies during the year, chiefly from drowning. When District Engineer Almon and Transitman White, of section C, in the eastern district of Quebec, were drowned, the rest of the party refused to remain in the field. They were sent to their homes and a new party organized. The report of the surveys in District E, which extends from Abitibi to Peninsula Crossing, the point of junction with the Lake Superior branch G. T. Pacific Ry., to which point the Eastern Division (National Transcontinental Ry.) is under construction from Winnipeg, shows that 14 bridges of considerable magnitude will be required. Five of these will be 500 ft. long, and one 700 ft.

The report of the Chief Engineer, H. D. Lumsden, which is incorporated, reaffirms the statements previously made that the gradient from Winnipeg easterly to the Atlantic seaboard will not exceed 0.8%, and westward the gradient will not exceed 0.8%, and season of the route of the line into Moneton has not been finally settled, but a St. John despatch, Dec. 19, says, anoflical information indicates that the reports of the engineers favor what is known as the central route, reaching Chipman practically in a straight line, instead of along the willow in the said to be somewhat shorter than the river route, offers better gradients and presents fewer obstacles to construction. Replying to questions in the House of Commons on the subject the Premier said the preliminary location surveys for the Quebec-Moneton and Grand Falls to Moneton, N.B., the Commissioners expected by the end of Dec. to be in a position to ask for te

JANUARY 1907

"Advertisements will be issued this week, calling tenders for constructing portions of the eastern section of the Transcontinental Ry, between Moncton and Levis. Besides asking tenders for the sections between Levis and the New Brunswick frontier, tenders for constructing the following sections of the National Transcontinental Ry, will be solicited: From Moncton-towards Chipman, 50 miles, will be the first section. The road will enter Moncton from north of Steeves Mountain and run almost parallel with the LCR, from east Berry's Mills. Tenders will also be called for the section in New Brunswick for a distance 62 miles from Quebec frontier towards Grand Falls. The route will be down to Baker's Brook and thence along the St. John River valley to Edmundston and following the valley to about 2½ miles from Grand Falls. Between the two sections named there will be in New Brunswick three additional sections, each' 50 miles, tenders for constructing which will be called early in the spring, or as soon as the mestion of route has been finally deter-"Advertisements will be issued this week called early in the spring, or as soon as the question of route has been finally determined."

mined."

The position of construction upon the line easterly from the Quebec bridge, shows that on the seven miles to Cap Rouge, a considerable amount of rock cutting will have to be done during the winter. The granite piers of the viaduct at Cap Rouge have been completed, except the two eastern ones, one of which is eaisson work. The section from Cap Rouge to Belair, 13 miles, where a connection is made with the C.P.R., is expected to be completed by June. On the 14 miles between Belair and Jacques Cartier River, the grading is nearly completed, and it is expected that trucklaying will be commenced in the spring. The section from Jacques Cartier River for 33 miles is also well advanced, and the masonry work for the bridge across St. Anne's River, is finished. The work on the other 127 miles to La Tuque is well advanced, and the abutments of nearly all the bridges are completed.

GRAND TRUNK PACIFIC RY.

The Vice President and General Manager stated in an interview at Winnipeg, Dec. 18, that he was well satisfied with the work that that he was well satisfied with the work that had been done on the road during the past year. About 80% of the work the company set out to do during the year had been completed, and preparations had been matle for larger works during the coming season. It was anticipated that not only would the arrears of 1906 be made up in 1907, but the whole of the work laid out for the year would be completed. The company was taking every precaution to provide against any scarcity of labor during the summer, such as there was during 1908.

Plans have been submitted for the approval

as there was during 1908.

Plans have been submitted for the approval of the Government for the line from Edmonton, Alta., through the Vellowhead Pass to Prince Rupert on the Pacific coast. The plans show the line over the summit of the Rocky Mountains will have a gradient of 0.4% and that no heavier gradient will be required to the ocean. The profile accompanying the location plans shows that there will be some heavy cuts and deep fills to ensure a line heavy cuts and deep fills to ensure a line with so low a gradient. Engineers who are familiar with the Yellowhead Pass state that it is wide enough to provide routes for several lines.

Reports from Prince Rupert state that Reports from Prince Rupert state that during the year five acres of land have been cleared and stumped; the whole district has been surveyed, and a hydrographic survey made of the harbor. The harbor is 16 miles wide, with a good entrance, straight and deepfor a width of over 2,000 yds., the water in the harbor averaging 25 fathoms in death. in depth.

National Transcont.sental Rallway.

Tenders are being received to Feb. 14, by the Commissioners, for the construction of the following sections of the projected

ine:

District A.—From at or near Moneton.

N.B., westerly for about 50 miles. From at or near Grand Falls, N.B., westerly to the boundary between New Brunswick and Quebec, about 62 miles.

District B.—From at or near Quebec Bridge ensterly for about 150 miles. From about 150 miles from about 150 miles west of Quebec Bridge, westerly to Weymontachene, Que., about 45 miles.

DISTRICTS C AND D.—From about 8 miles west of the Abitibi River crossing easterly for about 150 miles.

The plans for these sections of the line were approved by the Government at the end of 1906.

Reference to the terror to the control of the line were approved by the Government at the control of the line were approved by the line were approved.

were approved by the Government at the end of 1906.

Referring to the two sections under contract, the Minister of Railways, replying to a question in the House of Commons, Jan. 21, said between Quebec and La Tuque, the commons earth excavation was estimated, at 6,393,895 cubic yards, and the solid rock at 1,169,150 cubic yards. At the end of the year there had been removed 664,955 cubic yards of earth and 322,307 cubic yards of rock. On the line between Winnipeg and Lake Superior Junction, there was estimated to be 11,233,247 cubic yards of earth excavation and 3,696,336 cubic yards of rock cutting. At the end of 1906 there had been removed 282,000 cubic yards of earth and 179,920 yards of rock.

The Commissioners have practically purchased a site in the east part of Winnipeg as a site for shore and survey.

The Commissioners have practically purchased a site in the east part of Winnipeg as a site for shops and yards. The site will have a length of about two miles and a width of about a mile, and the price is said to be about \$200,000.

We have been advised that no track was laid on the main line up to the end of 1906, with the exception of a few hundred feet at St. Boniface, Man.

St. Boniface, Man.

GRAND TRUNK PACIFIC RY.

On the first section put under contract from Portage la Prairie, Man., westerly, 35 miles of steel had been laid to the vicinity of Pine Creek, to Dec. 31, 1906, and the company's officers state that it is expected to have track laid into Suskatoon, Sask., by the end of 1907. Five mile of tracks have been laid in the yards at Portage la Prairie, where large quantities of material are being assembled for construction during the current year. An agreement was reached, Jan. 13, with the Portage in Prairie council for the saie of a portion of Pacific Ave. to the Company, the closing of several streets, and the opening up of a new street the length of Pacific Ave., south of the G.T.P. right of way. The May Sharp Construction Co. is positing the excavation for the bridge at Clover Ear. Sask., so as to be ready to start the concrete work early in the spring. The survey work through British Columbia, according to a statement credited to Division Engineer Van Arsdol, is progressing satisfactorily. The actual locating of the line has not been made for any great part of the way, but lines have been run over the whole of the route intended.

The G.T.P. Ry, has purchased altogether about 1,200 acres of land in the east part of Winnipeg, including the Arctic ice farm, upon which it will locate its shops and yards. It is reported that the plans for the shops are completed, and that tenders for their erection are to be asked for at an early date. Another report states that the property in question has been acquired by the G.T.P. Ry in conjunction with the Commissioners of the Transcontinental Ry., and that it will be used for shop and yard purposes by the Eastern and Western Divisions of the line.

With respect to the construction of branch lines we were advised, Jan. 1, that while the company's charters provide for branch lines from either Crittin or North Bay, Ont., to a function with the National Transcontinental Ry., it had not mude any arrangement for the construction of these lines, and it was not probable anything would be done in that direction in the immediate future, as it was concentrating all forces and all labor procurable on the branch line from Fort William, Ont., and on the main line from Portage la Prairie to Edmonton, Alta.

Surveys for the branch into Regina, Sask., have been completed. The route passes through Fort Qu'Appelle. (Jan., pg. 29.)

National Transcontinental Railway.

The Dominion Parliament has under con The Dominion Parliament has finder con-sideration an act the object of which is to make the statute respecting payment of wages upon public works applicable to the Trans-continental Railway Commissioners' con-

In a recent discussion in the House of Commons when papers relating to the projected construction of a central station at Quebec were asked for, the Premier pointed out that the Transcontinental Railway Commissioners had no power to build terminals at Quebec this work rested with the Quebe Bridge and Railway Co., which had been authorized in 1903 to enter Quebec by the bank of the St. Lawrence. The Government had not surrendered its control; it could refuse to guarantee the Q.B. and Ry. Co.'s bonds if its plans were not satisfactors.

Tenders have been opened for the construction of five additional sections as follows:

struction of five additional sections as follows:

DISTRICT A.—From Moneton westerly 50 miles: G.T. Pacific Construction Co.; Eastern Construction Co. of Amberst, N.S.; M. T. Schurman & Co., Prince Edward Island; Eastern Construction Co., Ottawa.

From Grand Falls, N.B., westerly to the New Brunswick-Quebee boundary: G.T. Pacific Construction Co.; Toronto Construction Co.; Eastern Construction Co. of Amberst; Bastern Construction Co., Ottawa; Lyons & White Construction Co. White, Ottawa.

District B.—From Quebec Bridge easterly for about 150 miles: G.T. Pacific Construction Co.: Russell-Chambers, Limited, Toronto; M. P. & J. T. Davis, Ottawa; O'Brien & Mullarkey, Montreal.

From 150 miles west of Quebec Bridge to Weymontachene, Que, about 45 miles: G. T. Pucific Construction Co.; Russell-Chambers, Limited, Toronto; MacDonnell & O'Brien, Renfrew, Ont.

DISTRICT C. AND D.—From about eight miles west of Abitibi River, crossing easterly for 150 miles: G.T. Pacific Construction Co.: E. F. Fauquier, Ottawa.

E. F. Fauquier, Ottawa.

The contracts were awarded Feb. 26 as follows: district A, from Moncton westerly, 50 miles; district B. from about 150 miles west of Quebec Bridge to Weymontachene, Que., and districts C and D from about eight miles west of Abbitibl River easterly for 150 miles, to the Grand Trunk Pacific Construction Co.; district A, from Grand Falls, N.B. westerly to the New Brunswick-Quebec boundary to Lyons & White, Ottawa; district B, from 150 miles west of Quebec Bridge to Weymontachene, Que., to M. P. & J. T. Davis, Ottawa, It is said that the cost of the whole 457 miles, according to the accepted tenders, will be about \$13,000,000.

There are now under construction on the Government portion of the Transcontinental Ry. 395 miles, which added to the 457 miles awarded Feb. 26, makes 852. This is nearly the half of the line between Moneton and Winnipeg. In connection with the section between Chipman and Grand Falls, N.B., the route has not yet been definitely described to the content of th between Unipman and Granti Patis, N.B., the route has not yet been definitely decided upon by the Commission, but there is no doubt the report of the resident engineer, which is in favor of the centre route, will be accepted by the Commission and the Government. The the Commission and the Government. The statute calls for the most central route through the province easterly. The St. John Valley route would not be a central line. But, apart from the statute, the Transcomtinental engineers have been able to discover a shorter and a cheaper route through the centre of the province than was to be found by the St. John River Valley. John River Valley.

GRAND TRUNK PACIFIC RY.

C. Schreiber, C.M.G., General Consulting Engineer to the Government, and Chief En-gineer Western Division National Transcon-tinental Ry., has reported as to the progress

made to Sept. 1, 1906, with the surveys, location and construction of the Western Division of the National Transcontinental Ry (G.T. Pucific Ry.). The preliminary surveys have sufficiently advanced to enable the company to submit route maps of the line from Winnipeg, touching Saskatoon and Edmonton, and passing through the Yellow Head Pass to the Pacific slope at the junction of the Salmon River with the Fraser River, a distance of about 1,247 miles. Of this the Covernment has approved from Winnipeg to a short distance cust of Edmonton, about 776 miles in all. Edmonton being favorably situated for the establishment of the principal workshops, sorting and distributing yards, cattle yards, warehouses and grain elevators, a large area of land has been purchased for the purpose, and will give ample room for quick despatch of husiness at that important point. Plans and profiles of location have been submitted and approved by the Government from Portage la Prairie, Man., to nine miles cast of Edmonton, about 720 miles upon which construction is in progress. Mr. Schreiber had recently made an inspection nine miles cast of Edmonton, about 720 miles, upon which construction is in progress. Mr. Schreiber had recently made an inspection of this section of the line, and found the location has been carefully selected with a view to obtaining a first-class alignment and favorable gradients, the curvature is light and the maximum gradients against the traffic going west are 0.50%. In securing so good an alignment and gradients, henvy work has been encountered in the form of high embankments, deep cuttings and large structures at certain points, such as at Pine Mull, Minnawashta, Birdtail and Cut Arm Creeks; the little Saskatchewan River, the Touchwood, Eagle and Beaver hills, the Qu'Appelle valley and at Battle River.

He was disappointed with the progress made with construction; it had not advanced, and was not advancing aff rapidly as could be desired. This was due to the impossibility of securing the requisite number of men for a vigorous prosecution of the work. In four sy short of men were the contractors

or securing the requisite number of men for a vigorous prosecution of the work. In fact, so short of men were the contractors that in several instances many teams of horses were standing idle in the stables, horses were standing idle in the stables, owing to the inability to secure learnsters to drive them. It is, however, only fair to state that the works executed are of a substantial character. The embankments and enttings are neatly finished off, and the latter are well drained by side surface ditching. Following is a statement of the approximate quantities on the work on the section between Portage la Prairie and Edmonton, and the amount of work-executed monton, and the amount of work executed thereon up to Sept. 1, 1906;

Total. Quantity Done Character of Work Clearing, acres Orubbing, acres Earth excuvation, enhic 260 Barth excavation, enthic yards.
Critwetts, lineal feet.
Large trestle bridges, lineal feet.
Smaller pile bridges, lineal feet.
Steel bridges over large rivers, lineal feet.
Telegraph and telephone lines, miles. 1 091 000 314,700 17,900 62.000 4, 1000 In other 11 (99) 5 71913 750-20,000 telegraph poles delivered 1500 Nil. Fencing miles.
Track complete, including bulkesting 816 S0,000 tons rails delivered; 160, 100 ties deliv-ered; 2 miles track hild. Nil

Station and other build-ings, number 203 ings, number Cattle-guards and sign boards, number Rip rap, cubic yards 1.500 20,000

The material for the balance of the culverts, trestles and pile bridges, as well as the materials for the fencing, telegraph and telematerials for the reneing, teegraph and tele-phone lines, can be taken out during the winter and delivered upon the ground with much greater facility than in summer, much greater facility than in summer, and if nothing unforeseen occurred, it might

be anticipated that the track would reach Edmonton by the latter end of the autumn

The Ontario Legislature has under consideration a bill respecting the land grant for the construction of the Lake Superior for the construction of the Lake Superior branch. By the present act the Government is to survey the land listo townships, and by the amendments the company will take the land in blocks with areas about the size. the land in blocks with areas about the size of three townships, and the Government will have to undertake the work of outlining. This will cost about \$24,000, whereas the cost of surveys by townships would have amounted to three times that much.

The McDonald, McMillan Co, expects in a short time to be able to make a start upon construction of the line from Portage la Prairie construction of the line from Portage la Prairie to Winnipeg. The erection of the concrete piers for the bridge across the Saskatchewan River is being proceeded with by Gunn & Son, contractors. There are four piers and two heavy abulinents.

two heavy abutments.
It is expected that a conference between the C.P.R., the Canadian Northern Ry., the Great Northern Ry. U.S., and the G.T.P.Ry. officials will be held in Calgary, Alta., in March, with a view of an arrangement being reached respecting the terminal arrangements for all lines in the city.

Referring to the various mileages mention-ed in connection with the Pacific section of the line. Senator Scott stated recently that the first figures were merely estimates, as no the first figures were marely estimates, as no process had been made. It had now been the first figures were merely estimates, days surveys had been made. It had now been found from surveys that the line would have to go through the Yellow Head Pass, and that the mileage would be about 766. The plans for the line in B.C. have been filed at Victoria, and approved by the Commissioner of Works. Entering the Province by the Yellow works. Victoria, and approved by the Commissioner of Works. Entering the Province by the Yellow Head Pass the line will pass to the north of Cowdung and Moose lakes, following the northerly banks of the south fork of the Fraser river, until if is joined by the north fork. The latter will be crossed near its mouth and the main river followed to a point in the vicinity of Fort George. This fort, which is at the junction of the Fraser and Lower Nechaeo, will be left to the south, and the valley of the latter, on the north bank, followed almost due west to Fraser lake. Skirting to the north of Fraser lake, the line, at the westerly extremity, will change in course, going northwesterly along the northeast banks of Enduko river and Burns and Decker lakes to the headwaters of the South Buildey river. Contrary to general expectation, the map of the proposed route shows Bulkley river. Contrary to general expecta-tion, the map of the proposed route shows that the railway will not be built on the west side of Bukley river, but on the east. This will take it through the Hudson's Bay ranch and Moriectown, and it will cross the Skeena near Hazelton, thence turning abrupt-te to the synthyses. following the nurth bank Skeena near Hazelton, thence turning abrupt-ly to the southwest, following the north bank of the Skeena entirely to its mouth. From that point it will cross to Kalen Island and the terminus at Prince Rupert.

Following are the officers and directors of the Quebec Cartage and Transfer Co., elected at the organization meeting, Jan. 22: Pres., Hon. E. B. Carneau: Vice-President, Hon. R. Turner; Managing Director, J. Hone, Jr.; Secretary-Trensurer, N. Belleau; other directors, Hon. A. Turgeon, R. Forget, Montreal; and J. H. Walsh, Sherbrooke, Que. With the exception of the two last named, all the officers and directors reside in Quebec.

officers and directors reside in Quebec.

The Winnipeg Jobbers and Shippers Association, which established a transportation department recently, has the following officers: President, J. H. Ashdown; Vice President, E. D. Martin; Executive Committee, W. Georgeson, A. L. Johnston, D. E. Sprague, G. F. Galt, D. E. Williams, H. M. Belcher, E. F. Hutchings, A. Macdonald; Sec. Treas., A. B. Kent; Manager Transportation Department, G. E. Carpenter.

National Transcontinental Railway.

The final surveys and location of the Easttern Division Iron Quebec to Winnipeg, it is stated, show a line of 1,3491/2 miles. route through New Brunswick, it is reported, has been decided upon, but no official annonneement had been made to Mar. 20. Press reports state that of the three routes surveyed, the engineers recommend the adoption of the back route between Chipman and The adoption of the route, it is stated, will require the use of a pusher for Grand Falls westbound traffic for a distance of about 17 miles. The route will be 47 miles shorter than the route surveyed by the St. John River valley, and 18 miles shorter than the third route surveyed. The last mentioned route was laid out so as to provide the standard gradients, and its cost was consequently the heaviest of the three

The Commissioners have authorized the construction of three buildings for the use of the engineering staff between Moncton and Chipman, N.B. The buildings will be of frame and will be located at Hemlock Ridge, pear Cannan, a point 15 miles north of Havelock, and eight miles east of Chipman, respectively. It. Ryan, of the Commissioners' engineering staff, is superintending their

Tenders have been received for the conerection struction and erection of six steel bridges in District F, at the following points between Winnipeg and Lake Superior Junction: Wa-Jagoon River, Winnipen River, C.P.R. crossing, Whitemouth River, Brokenhead River, east branch. Brokenhead River, west branch. The class of lead which the bridges are to carry is that designated as heavy in the general specifications for steel bridges of the Department of Radways.

GRAND TRUNK PACIFIC RY

Glyn, Mills, Curric & Co., London, Eng., have offered (1,000,000 F, C.T.P. Rv. de benture stock at par, the proceeds of which is to be devoted to the purchase of rolling stock for the equipment of the line. The stock, which is part of an authorize state of (3,000,000, is redeemable at 105, Mar. 1,

CH

re

De

TI

SE

10

fe

11

h

the mileage between the junction of the line with the Temiskaming and Northern Ontario Ry., and the junction with the Lake Superior branch from Fort William, and Port Arthur, Ont. Of the three contracts recently given to the G.T. Pacific Ry. Contract for 50 miles from La Tuque westerly has been sublet to McDonald and O'Brien. It has been reported in the daily papers that a U.S. contracting firm had obtained a sub-contract to do the work on the Moncton 50 miles, and that the G.T. Pacific Construction Co. would do the work on the 150 mile section easterly from the Abitibi River.

The Transcontinental Railway Commissioners made an inspection trip over the Quebec-La Tuque section, and subsequently went to Winnipeg, where they arrived June 10. Before leaving they authorized the statement that work on the shops and vards at that point would be commenced forthwith.

Tenders were received by the Commissioners to June 25 for the construction and erection of the superstructure of five steel bridges in District B. The bridges are to be in accordance with the general specifications for steel bridges of the Department of Railways, 1905, and to be able to stand the test of the load designated "heavy" in the specifications.

Tenders were also receized up to June 25 for 65,371 tons of 80-lb. steel rails, either open hearth or Bessemer at the option of the Commissioners, together with the neces-

sary fastenings for the same.

Tenders for the supply of 200,000 ties were received up to June 14. Delivery is to be made commencing April 1, 1908, at Rennie Jct. siding, Ont., or on the line of the Transcontinental Ry. eastwardly therefrom in such numbers as to allow 3,000 ties to the mile.

GRAND TRUNK PACIFIC RY.

C. Schrieber, Consulting Engineer to the Department of Railways, is making a trip of inspection over the route of the line from Winnipeg to the Pacific Coast. He visited various points on the route between Winnipeg and Edmonton, and will follow the route through the Yellowhead Pass to the Pacific Coast. Upon his report the final approval of the route will depend.

F. W. Morse, Vice-President, stated as the result of his recent visit to Winnipeg July 1907

National Transcontinental Railway.

The central route for the Eastern Division of the line through New Brunswick has been finally approved, and the necessary order-in-council has been passed. Instructions have been given to the engineers to complete the location from Chipman to Grand Falls, N.B. This work will take several weeks to complete, and it is expected that tenders for the construction of this section will be asked for at an early date. The line is under contract from Moneton westerly for 50 miles, the G.T. Paeric Ry. Co. having the contract. Tenders were received to June 25 by the commissioners for the construction of an eight mile section from the terminal point of the 50 mile section west of Moneton to Chipman. When the Chipman Grand Falls section has been let, the whole of the line from Quebec to Moneton will be under contract as well as a considerable mileage between Quebec and Winnipeg. The gap for which the location has not been completed, and for which tenders have not been asked, include

JULY 1907

National Transcontinental Railway.

w:

ch

11

11

Jı

Ci

CI

1

The Commissioners have awarded a contract for 44,000 tons of steel rails to the Dominion Iron and Steel Co., and for 21,371 tons to the Algoma Steel Co., delivery to commence in Nov., and be completed in 1908. The Commissioners have let a contract to the Dominion Bridge Co. for five steel bridges for the line in Eustern Quebec. The Commissioners have under consideration four tenders for the construction of the line from-Chipman eastwards to Moneton, N.B. The contractors tendering age. M. J. O'Brien and Q. J. Fowler, Ottawa; Grand Trunk Pacific Ry. Co., Montreal; Willard Kitchen Co., Fredericton, N.B.; J. W. McManus Co., Memramcook, N.B.

Press reports state that M. P. and J. Davis have sublet the greater part of the 150-mile section between Quebec Bridge and the New Brunswick boundary, the sub-contractors being: Pocock and Lemay, Cameron and Perrego, Johnston and Sabiston, Beauregard and Dufour, McDougall Bros., Murdoch Bros., R. Ryan and A. McGougan. The latter will construct bridges over the Etchemin and Abenaquis rivers. The G. T. Pacific Ry. Co. has sublet the clearing of the right of way on the Abitibi section to Rogers and O'Brien, of Montreal. With respect to the 275-mile section from Winnipeg easterly to Lake Superior Junction, H. D. Lumsden, Chief Engineer, stated recently that the contractors had 4,000 men at work, and very poor progress was being made. He thought that a great deal of work could be done during next winter, but he would not care to say that this section of the line would be completed by the spring.

Owing to forest fires in Ontario east of the Manitoba boundary, J. D. McArthur, contractor on the Winnipeg-Superior Junction section, has suffered considerable damaage. The loss at the Vermillion Bay storehouse is estimated at nearly \$30,000. Camps at other points have been damaged to some extent.

August 1907

steel, straight type, fitted patent spark arrester.

National Transcontinental Railway.

H. D. Lumsden, Chief Engineer, arrived in Winnipeg Aug. 13 from Ottawa, for the purpose of making an inspection of the construction operations eastward, carried on during the summer. It is reported that satisfactory progress has been made during the year with the grading and tracklaving on the portion under contract from Winnipeg, easterly to the junction with the Lake Superior branch from Fort William, which is being constructed by the

G.T. Pacific Ry.

11

11

No.

ď

11

si.

d

The Commissioners of the Transcontinental Ry, will receive tenders to Sept. 5, for the construction and erection of the steel superstructures and floor systems, with ties and guard rails complete, required for bridges at the following points in District B., west of Quebec: Grand Bras d'Arme, mileage 38.9; Lachevotiere River, mileage 39.93; Nigerette, mileage 46; Tawachiche River, mileage 83; Roberge Creek, mileage 85; River des Eaux Mortes, mileage 95; vinduct of River du Milieu, mileage 97; crossings of Brochet River at mileages 99, 101.5, 102, 108.5, and 109; Creek a Beauce. mileage 115; overhead crossing, Quebec & Lake St. John Ry., mileage 118.25; Little Bostonnais, mileage 119.5; Big Bostonnais, mileage 124; Croche River, mileage 127; River au Lait, mileage 128.9; St. Maurice River, mileage 129.

GRAND TRUNK PACIFIC RY

F. W. Morse, Vice-President and General Manager, returned to Montreal Aug, 8, after having been absent since July 4 inspecting the work in progress on the line. He said in an interview that the connection between Fort William and Winnipeg would not be made in time to carry the present season's crop. The company's branch from Fort William to Peninsula Lake, or Lake Superior Junction, would be completed, but the main line of the National Transcontinental Ry. into Winnipeg, which the Government is constructing, would not be completed. Satisfactory progress was being made on the line west of Winnipeg. A good deal of the grading and tracklaying between Winnipeg and Portage la Prairie had been completed, while about 60 miles of track had been laid and ballasted beyould Portage la Prairie. By the time the coil weather set in it was expected to have about 235 miles west of Portage la Prairie completed. Further west the bridge construction was being proceeded with as rapicly as possible, and the other work was well forward. The steel bridge over the Battle River would be ready for the rails this autumii. The one over the south Saskatchewan, just south of Saskatoon, was just as

track I west of stall I being age la comme Midlar Ry., I tracto Winni

Fro

survey well i still Prince the s line 1 the \ yond the 1 Casca line ' in th are s larly cultu A to Fr tion: Pacif ports pecte main Cany In U VOTV the a co ishec C. and B.C. nego Wes char tol the LWCI

> dian cap \$2,0 mon shar I men the

at ?

the a c dev nee atie

CON Wall Star September 1907

671 ORLD

far advanced, and the one at Clover Bar ade was approaching the linishing stage very last. Preparations were being made to ariv start construction west of Edmonton at once. TITS. It was impossible to say what mileage would ever be operated this year. cab. ated

C. Schrieber, Consulting Engineer for the Dominion Government, stated, Aug. 16, that by the time construction for the year had been completed, track would be laid from Winnipeg to Saskatoon, 465 miles. Track had been had at the last report he received for 120 miles from Portage la Prairie westerly, and the roadbed was practically ready for rail laying the rest of the way to Saskatoon. Three divisional points had been selected along the route, and roundhouses and terminal facilities were being established. Station buildings were also being erected this year every few miles along the line.

Reports from Rivers, Man., state that track had been laid to that point, 143 miles west of Winnipeg, July 30, and that an. 18stall roundhouse and other buildings were being creeted there. The station at Portage la Prairie, which is lleing built to ac-commodate the G.T. Pacific Ry., and the Midland Ry. of Manitoba (Great Northern Ry., U.S.), is under constructed to the tractors being the J. McDiarmid Co., of

Winnipeg.

ecl.

hiv-

N in

carli

and

ung.

3-16

vide.

mich -

mpuakers

Ton.

smit-

sheet spark

у.

rived r the f the

arried

that

track-

din -

from with

Will-

v. the

ontin-

pt. 5,

stems,

quired

n Dis-

Arme.

nilenge

chiche

nileage

ge: 95;

ge 97;

tes 99,

seauce.

shee &

Little

onnais.

e 127:

Jaurice

I Gen-

1111 anks

> From Edmonton west the line has been surveyed through the Yellowhead Pass and well into British Columbia. The few miles still unsurveyed between this point and Prince Rupert will be taken care of during the summer. Since the route of the new line has been definitely surveyed through the Yellowhead Pass and the country beyoud there has been a strong move to settle the big plateau between the Rocky and Mountains through which the Cascade line will pass. This is especially the case in the Bulkley and Temple Valleys, which are said to enclose vast tracts of particularly fertile land, not only adapted for agriculture, but suitable for line fruit farming.

A contract is reported to have been let to Foley Bros. and Larson for the construction, of 180 miles from Kitamaat on the Pacific Coast to Hazelton, B.C., and reports from the coast state that it is expected that a contract for a section of the main line from Prince Rupert to Kittesalas Canyon, 100 miles, will be let in the fall. In this section there is reported to be some very heavy rock work, and that even under the most favorable conditions it will take a couple of years to get the 100 miles fin-

ished.

M. Hays, and F. W. Morse, President C. M. Hays, and F. W. Morse, ressuence and Vice-President, have been at Vancouver, B.C., and local reports state they are negotiating to purchase the Vancouver, Westminster and Yukon Ry., which has a charter to construct a line from Vancouver to Dawson, Yukon. The existing lines of the V.W. and V. Ry. give a connection between the Great Northern Ry. (U.S. line at New Westminster and Vancouver.

The proposal of the directors of the Canadian General Electric Co., Ltd., to increase the capital stock of the company by the issue of

September 1907

I Aug. July 4 he line. nection would present ch from

r Lake upleted, Transnich the not be is being

2

H. D. Lunisden, Chief Engineer, arrived in Winnipeg Ang. 13 from O-tawa, for the purpose of making an inspection of the construction operations eastward, carried on during the summer. It is reported that satisfactory progress has been made during the year with the grading and track-laying on the portion under contract from Winnipeg, easterly to the junction with the Lake Superior branch from Fort William, which is being constructed by the G.T. Pacific Ry.

The Commissioners of the Transcontinental Ry, will receive tenders to Sept. 5, for the construction and erection of the steel superstructures and floor systems, with ties and guard rails complete, required for bridges at the following points in District B., west of Quebect Grand Brus d'Arme, mileage 38.9; Lacher Stiere River, mileage 38.9; Lacher Stiere River, mileage 39.93; Nigerette, mileage 46; Tawachiche River, mileage 83; Roberge Creek, mileage 85; River des Eaux Mortes, mileage 95; viaduct of River du Milieu, mileage 97; crossings of Brochet River at mileages 99, 101.5, 102, 108.5, and 109; Creek a Beauce, mileage 115; overhead crossing, Quebec & Lake 8t. John Ry., mileage 118.25; Little Bostonnais, mileage 121; Croche River, mileage 125; River au Lait, mileage 128.9; St. Maurice River, mileage 129.

GRAND TRUNK PACIFIC RY

F. W. Morse, Vice-President and General Manager, returned to Montreal Ang. 8, after having been absent since July 4 inspecting the work in progress on the line. He said in an interview that the connection between Fort William and Winnipeg would not be made in time to carry the present senson's crop. The company's branch from Port William to Peninsula Lake, or Lake Superior Junction, would be completed, but the main line of the National Transcontinental Ry, into Winnipeg, which the Covernment is constructing, would not be completed. Satisfactory progress was being made on the line west of Winnipeg. A good deal of the grading and tracklaying between Winnipeg and Portage la Prairie had been completed, while about 60 miles of track had been laid and ballasted beyond Portage la Prairie. By the time the coid weather set in it was expected to have alynt 235 miles west of Portage he Prairie completed. Further west the bridge construction was being proceeded with as rapidly as possible, and the other work was well forward. The steel bridge over the Battle River would be ready for the rails this autumn. The one over the south Suskatchewan, just south of Saskatoon, was just as

far advanced, and the one at Clover Bar was approaching the finishing stage very fast. Preparations were being made to start construction west of Edmonton at once. It was impossible to say what mileage would be operated this year.

C. Schrieber, Consulting Engineer for the Dominion Government, stated, Aug. 16, that by the time construction for the year had been completed, track would be laid from Winnipeg to Suskatoon, 465 *miles. Track had been had at the last report he received for 120 miles from Portage la Prairie westerly, and the roadbed was practically ready for rail laying the rest of the way to Suskatoon. Three divisional points had been selected along the route, and roundhouses and terminal facilities were being established. Station buildings were also being creeted this year every few miles along the line.

were neing estationated. Station buildings were also being erected this year every few miles along the line.

Reports from Rivers, Man., state that track had been hid to that point, 143 miles west of Winnipeg, July 30, and that an 18-stail roundhouse and other buildings were being erected there. The station at Portage la Prairie, which is being built to accommodate the G.T. Pacific Ry., and the Midland Ry. of Manitoba (Great Northern Ry., U.S.), is under construction, the contractors being the J. McDiarmid Co., of Winnipers

Winnipeg.

From Edmonton west the line has been surveyed through the Yellowhead Pass and well into British Columbia. The few miles still unsurveyed between this point and Prince Rupert will be taken care of during the summer. Since the route of the new line has been definitely surveyed through the Yellowhead Pass and the country beyond there has been a strong move to settle the big plateau between the Rocky and Cascade Mountains through which the line will pass. This is especially the case in the Bulkley and Temple Valleys, which are said to enchose vast tracts of particularly fertile land, not only adapted for agriculture, but suitable for line fruit farming.

A contract is reported to have been let to Foley Bros, and Larson for the construction, of 180 miles from Kitamaat on the Pacific Coast to Hazelton, B.C., and reports from the coast state that it is expected that a contract for a section of the main line from Prince Rupert to Kittesalas Canyon, 100 miles, will be let in the fail, in this section there is reported to be some very heavy rock work, and that even under the most favorable conditions it will take a couple of years to get the 100 miles limited.

ished.
C. M. Hays, and F. W. Morse, President and Vice-President, have been at Vancouver, B.C., and local reports state they are negotiating to purchase the Vancouver, Westminster and Yukon Ry., which has a charter to construct a line from Vancouver to Dawson, Yukon. The existing lines of the V.W. and Y. Ry. give a connection between the Great Northern Ry. (V.S. line at New Westminster and Vancouver.

of the County

A despatch sent out from Ottawa states that in 1903, when the project for the construction of this railway was introduced, the cost of the eastern section, extending from Moneton to Winnipeg, 1,800 miles, was estimated at \$100,000,000. It is now estimated that the cost will be at least 25 % in excess of this amount owing to the increased cost of labor, materials and supplies of all kinds. It is stated that this increased cost of construction, and the inaccessibility of the section of the country through which the line will pass between Abitibi and the junction with the Lake Superior Branch, is responsible for the delay in putting this portion of the line under contract. Another despatch from Ottawa states that on the 660 miles of the Eastern Division of the line under contract there are over 18,000 men at work, and that the monthly pay roll is over \$1,000,000.

Justice McLeod of the New Brunswick High Court has decided that the N.T. Ry is a Government railway, and that the provisions of the Railway Act requiring a deposit to be put up before taking possession of land did not apply, and that all the Commission had to do was to file with the Registrar of Deeds a plan of the lands required for railway purposes. This decision was given upon an application of the Commission for an order putting it in possession of lands required for the railway in Madawuska county.

An immediate start is to be made upon the grading of the 50 mile section from Moncton westerly to Chipman, N.B., the contract for which was let to the G.T. Pacific Ry. The company has sublet the work to J. H. Corbett, of Franklyu, Pa., who will have his headquarters at Chipman.

We are advised that the contract which the J. W. McManus Co. is carrying out on the National Transcontinental Ry, is for an eight mile section from a point about 145 miles east of Chipman, N.B., westerly, mileage 50 to 58. The contract is direct with the Commissioners of the Transcontinental Ry, and not a sub-contract under the C.T. Pacific Ry, as previously reported.

the G.T. Pacific Ry., as previously reported.

The G.T. Pacific Ry., which secured the contract for the section of 150 miles easterly from the Abithi River, has sublet the work to the J. H. Reynolds Construction Co. This company proposes to get in supplies form camps, and perfect arrangements for starting grading work in the spring.

J. W. Fitzgerald, Ontario Land Surveyor, who has returned to Peterborough, Ont., after, a summer spent in making surveys in the Matagami district, is reported as saying that the principal feature of the construction of the line in northwestern Ontario will be a tangent of 70 miles, on which there is no obstruction whatever except rivers.

struction specting Prince point, ar Mr. Hay line from the pre: the cor growth year ag to Mont his nex over the While t branch be to c coast. would the Atl too ear say tha nection especia would (

It was of true Branch constructawbr Kamin contract & Balf Canadi bridge way trand for the same of the

An Prairie was n Engin sioner: Oct. 3 trains follow Arona mileas 84: 1 Harte Lustic Levin Myra, Oakn milea cross€ and] near (Ste 150 r

being A sec from almorand report that and i

mont the v Cons Railpurp prog Tl on a at t Sask erose brid Confirm

of a

A despatch sent out from Ottawa states hat in 1903, when the project for the contruction of this railway was introduced, the est of the eastern section, extending from Moneton to Winnipeg, 1,800 miles, was estimated at \$100,000,000. It is now estimated ated that the cost will be at least 25% in excess of this amount owing to the increased cost of labor, materials and supplies of all kinds. It is stated that this increased cost of construction, and the inaccessibility of the section of the country through which the line will pass between Abitibi and the junction with the Lake Superior Branch, is responsible for the delay in putting this portion of the line under contract. Another despatch from Ottawa states that on the 660 miles of the Eastern Division of the line under contract there are over 18,000 men at work, and that the monthly pay roll is over \$1,000,000.

Justice McLeod of the New Brunswick High Court has decided that the N.T. Ry, is a Government railway, and that the provisions of the Railway Act requiring a deposit to be put up before taking possession of land did not apply, and that all the Commission had to do was to file with the Registrar of Deeds a plan of the lands required for railway purposes. This decision was given upon an application of the Commission for an order putting it in possession of lands required for the railway in Madawaska county.

An immediate start is to be made upon the an immediate start is to be made upon the grading of the 50 mile section from Moncton westerly to Chipman, N.B., the contract for which was let to the G.T. Pacific Ry. The company has sublet the work to J. H. Corbett, of Franklyn, Pa., who will have his headquarters at Chipman

headquarters at Chipman.

We are advised that the contract which the J. W. McManus Co. is earrying out on the National Transcontinental Ry, is for an eight mile section from a point about 1½ miles east of Chipman, N.B., westerly, miles east of Chipman, N.B., westerly, mileage 50 to 58. The contract is direct with the Commissioners of the Transcon-

with the Commissioners of the Transcontinental Ry., and not a sub-contract funder the G.T. Pacific Ry., as previously reported.

The G.T. Pacific Ry., which secured the contract for the section of 150 miles casterly from the Abitibi River, has subjet the work to the J. H. Reynolds. Construction Co. This commission proposes to set in securior. This company proposes to get in supplies, form camps, and perfect arrangements for starting grading work in the spring.

J. W. Fitzgerald, Ontario Land Surveyor, who has returned to Peterborough, Ont., after a summer spent in making surveys in the Matagami district, is reported as saying that the principal feature of the construction of the line in northwestern ()mtario will be a tangent of 70 miles, on which there is no obstruction whatever except rivers.

GRAND TRUNK PACIFIC RY.

M. Hays, President G. T. Pacific Ry. W. Morse, Vice-President and General Manager, accompanied by A. Smithers, of London, Eng., Vice-President G.T.R., Senator Cox, and others interested in the con-

struction of the line, spent a month in inspecting the work in progress. They visited Prince Rupert, the Pacific Coast terminal point, and on returning to Vancouver, Sept. 30, Mr. Hays said the company would construct a line from Fort George to Vancouver, but for the present attention would be confined to the construction of the main line. The growth of Prince Rupert since his visit a year ago had surprised him. On returning to Montreal, Oct. 14, he said he expected that his next visit to Edmonton would be made over the G.T. Pacific Ry. from Fort William. While the company had the right to construct branch lines the company's first care would be to complete the main line through to the coast. As regards steamships the company would operate two fleets of steamers, one on the Atlantic and one on the Pacific. too early to discuss details, but he might say that the company would work in con-nection with allied lines of steamships, especially the Allan Line, but if necessary, it would construct its own fleet.

It was reported Oct. 8, that about 40 miles of track had been laid on the Lake Superior Branch from Fort William, Ont., and that construction trains were running daily. A drawbridge is to be constructed across the Kaministikwia River at Fort William, the contracts for which have been let to Wylie & Balfour for the substructure, and to the Canadian Bridge Co. for the steel work. The bridge will accommodate not only the rail-way tracks, but an electric railway, vehicles

and foot passengers.

An inspection of the line from Portage in Prairie, mileage 54, to Rea, mileage 176, was made by H. A. K. Drury, Inspecting Engineer for the Board of Railway Commissioners, Winnipeg, and an order was issued Oct. 3, authorizing the operation of freight trains over this mileage. The stations are as trains over this mileage. The stations are as follows: Portage la Prairie, mileage 54. Arona, mileage 59: Barr, mileage 63: Caye. Arona, mneage 59; Darr, mneage 55; Caye, mileage 70; Deer, mileage 76; Exira, mileage 84; Firdale, mileage 91; Gregg, mileage 99; Harte, mileage 105; Ingelow, mileage 112; Justice, mileage 121; Knox, mileage 129; Levine, mileage 134; Rivers, mileage 142; Myrs, mileage 142; Norman mileage 142; Myra, mileage 151; Norman, mileage 152; Myra, mileage 151; Norman, mileage 158; Oakner, 158; Pope, mileage 164; Quix, mileage 170; Rea, mileage 176. The line crosses at grade the C.P.R. near Red Deer and Justice, and the Canadian Northern Ry.

near Gregg.
Steel has been laid to the Assimboine River, 150 miles west of Portage la Prairie, and is being pushed forward as rapidly as possible. design passed to ware as rapidly as possible. A second gang has started working eastward from Saskatoon, Sask. The grading is almost completed between Portage la Prairie and Suskatoon, some few small gaps being reported remaining Sept. 30. It is expected that this portion of the line will be completed and in operation by the end of the year.

Westerly from Saskatoon, Sask., to Edmonton, Alta. the contractors are pushing the work as rapidly as possible. C. Schrieber, Consulting Engineer of the Department of Ruilways, left Ottawa Sept. 28, for the purpose of inspecting the work done and in

progress as far as Edmonton.

The Canadian White Co. has started work on a contract for a fill of 200,000-cubic yards, at the western end of the bridge over the Saskatchewan River at the Clover Bar crossing. The piers and abutunents for this bridge are being put up by the May-Sharpe Construction Co. The work done by the firm during the summer includes the erection of a concrete pier 95 ft, above low water mark, with a double row of piers on one side of the river and the anchor pier.

The question of letting a contract for 200 miles from Edmonton, westerly towards the Yellowhead Pass, is under consideration, and it is expected tenders will be called for shortly.

In connection with the construction of the line from Kitamaat easterly, J. W. Stewart, of the firm of Foley Bros, Larson & Co., the contractors, says that active work is in progress on the 10 mile section from Kitamaat summit to Kitselas canyon, where the Copper River joins the Skeena River. The Copper River joins the Skeena River. rock work there is the heaviest on the entire 180 miles between Kitamaat Arm and Hazleton. The right-of-way from Kitamaat to the Kitselas canyon, 45 miles, is being cleared, and a wagon rond is being con-structed. When this section has been completed it will be possible to go ahead rapidly with the construction of the upper section of the line to Hazlefon. Progress will be slow at first owing to the limited transportation afforded by the river. Reports from Kita-maat state that there is every probability that a port will be established there for bandling G.T. Pacific Ry business before the development of Prince Rupert is proceeded

A map showing the complete transcontinental system is issued as a supplement to this number of The Railway and Marine WORLD.

under contract is well advanced. Tenders for the greater part of the remaining 1,000 miles between Winnipeg and Moncton will, it is said, be called for in the spring. The portion of the line in Northern Ontario adjacent to the Temiskaming and Northern Ontario Ry, will probably be the last to be constructed, as tenders are not expected to be called for until the T. and N.O.R. is extended to the proposed point of junction.

GRAND TRUNK PACIFIC RAILWAY.

F. W. Morse, Vice-President and General Manager, recently completed a trip of inspection over the whole main line, and the Lake Superior branch. Fifty miles of track had been laid on this branch, and grading is reported to be progressing favorably. The Macdonald, McMillan Co. have completed their contract for grading from Portage la Prairie to the Touchwood Hills, 272 miles, and the Canadian White Co. is finishing up its contract for grading into Saskatoon, Sask. The grading between Saskatoon and Edmonton is also well forward, and it was expected that by Nov. 30, 600 miles of the 770 between Portage la Prairie and Edmonton would have been graded. It is expected that track will be laid into Saskatoon by the end of the year, but this depends entirely upon favorable weather. On Nov. 12, the steel-laying gang working westerly was reported to be on Sec. 5, about 20 miles south of Yorkton. Steel is also being laid easterly from Saskatoon, from which point 100 miles of grade has been fully completed. On Nov. 12, the tracklaying gang was working some miles east of French.

The substructure for the big bridge across the Saskatchewan River at Saskatoon has been completed, and the contractors have removed their plant to the Battle River, where another large bridge is to be constructed. The substructure consists of nine piers and two abutm ats in which there are 7,000 cubic yards of concrete. The false work is being erected at 1a large quantity of the steel for the superstructure has been delivered. The contractor for the steel work is the Canadian Bridge Co., Walkerville, Ont., and J. Gunn & Sons were the contractors for the substructure.

The route finally adopted for the line west of Edmonton, Alta., runs parallel with the Camadan Northern Ry., to near Stoney Plain. It skirts the shores of Wabamum Lake, 40 miles west, then to the Pembine River, crossing it several miles west of the mouth of the Lobstick River, and runs along the bank of that river until near Lobstick Lake. South of the lake the line runs along the valley following pretty nearly the old Vellowhead Pass trail, but crossing Upper Lobstick River, Carrot River, a branch of the McLeod, the Wolf, and crossing the McLeod a few miles below the Jasper trail crossing at White Mud creek, west along the south bank of the McLeod, beyond the big eddy, to within a mile of Leavings, the name given to the dividing land that separates the McLeod watershed from the Athabasca, the line traverses valley land. On this divide of the two rivers the G.T.P. strikes a heavy grade and winds over a hill, 3,470 ft. high. The line strikes the Athabasca River about three miles up from the mouth of Train Creek, and then runs through a heautiful valley to the Roche Miette, the first mountain the old Jasper trail crosses. Here there is an excellent grade to climb to the pass, the line winding up the river valley. At a meeting of the Commissioners at Ottawa, Nov. 12, it was reported that 10 parties were in the field locating the route from the Vellowhead Pass to the coast. These parties will remain in the field during winter. C. Van Arsdol, engineer in charge of the Western Division, returned to Vancouver, B.C., Nov. 2, after having gone over the route of the line from Prince

Rupert easterly to Barkerville, B.C. He said alternative routes had been surveyed in various sections, and it would take some time to decide as to the final route to be followed. (Nov. pg. 839).

The report of the Transcontinental Ry Commission for the nine months ended Mar. 31, is referred to in the report of the mar. 31, is reterred to in the report of the Department of Railways and Canals. From the summary given it appears that the total amount expended during the nine months was \$5,537,867.50, which with the \$2,609,627.13 previously expended, makes total payments of \$8,147,494.63. It is stated that the various surveys carried on have produced exhibitority results and have produced satisfactory results, and that the basal intention that the railway throughout should be so located as to afford grades of exceptional ease in operation not exceeding 0.40% against castbound and 0.60% against westbound traffic, and curves of the greatest possible radius has been elected traffic. been closely regarded, though the endeavor to meet this requirement has, of course, entailed much additional survey work. Connected lines of survey have now been obtained for the entire distance between Moncton and Winnipeg. Contracts for con-

struction have been awarded for 852 miles.
The report of C. Schrieber, Consulting Engineer to the Department, is published in full, and is summarized as follows by the Deputy Minister: "On the Western Divi-sion of the railway to be built by the G.T. Pacific Ry., Mr. Schrieber's report shows the position up to Mar. 31. Surveys have been completed and the plans and profiles of location have been approved by orders-in-council from about 32 miles west from Winnipeg to Edmonton. From Edmonton to 27 miles west of Yellowhead Pass location plans and profiles have been approved; but may be revised as improvements develop. The balance of the line to Prince Rupert, the proposed terminus on the Pacific Coast, has been located, and plans and profiles sub-mitted; but an improved revision was ex-The Chief Engineer states that a pected. very good location has been made, only one grade exceeding 4-10 of 1%; the exception being a 1% grade for about 20 miles. The work, for mountainous work, will not be work, for mountainous work, will not be heavy, except for about 170 miles east from Prince Rupert, where it will be almost entirely very heavy rock excavation. The construction under contract and progress is from Portage la Prairie, 275 miles westward, on which about 75% of the grading was done, and about 60% of the culverts, bridges, etc., a further distance of 141 miles to a short distance west of the crossing of the South Saskatchewan River, on which 48% of the grading and about 38% of the entire work was done. For a further distance of about 316 miles to Edmonton about 25% of the grading was done. The bridges over the Assiniboine, the South and North Saskatchewan, and the Buttle rivers, are Suskatchewan, and the Buttle rivers, are under contract. The severity of the last winter greatly interfered with construction. with regard to tracklaying, though steel rails of 80 lbs. to the yard have been de-livered for the whole distance from Winnipeg to Edmonton, 800 miles. The short-nage of ties has delayed tracklaying, only 36 miles of track being laid to Mar. 31. About 36 miles of telegraph line have been erected.

The Commissioners visited Moneton, N.B., Nov. 8, for the purpose of considering the question of the terminals necessary there. They returned to Ottawa on the following day, and will confer with the Minister of

Railways upon the subject.

The Commissioners have filed with the Registrar of Deeds for the County of L'Islet, route plans for the railway from mileage 89 to 130, from the north abutment of the Quebec Bridge, easterly through the County of

Reports received at Ottawa state that about 50 miles of track have been laid on the Quebec. section, and that grading on the sections

Transcontinental Ry. Commission. - S. R. Poulin, heretofore District Engineer at North Bay, has been appointed District Engineer at Kenora, Ont., succeeding Major Hodgins, resigned.

C. O. Foss, heretofore Assistant District Engineer at St. John, N.B., has been ap-pointed Assistant District Engineer at Kenora, succeeding A. F. Heaman, resigned.

Wisconsin Central Ry.—H. S. Head has been appointed District Passenger Agent, with headquarters at 290 Broadway, New York City. His territory includes all the York City. territory lying east of Bulfalo in the United States, and the Canadian territory lying east of Toronto.

L'Islet.

lecember 1907

ige er,

·III-

Co.

nin

ria-

of

are

ion

ow-

ipt-

iere

National Transcontinental Railway.

An agent of the National Transcontinental Ry. Commission is reported to have purchased about three acres for right of way about three miles from Moncton, N.B. Nothing has been done towards purchasing right of way between that point and Moncton, as the exact point of junction with the Intercolonial Ry. does not appear to have been finally determined upon.

The G.T. Pacific Ry. Co. has sublet contracts as follows: 50 miles west from Moncton to J. H. Corbett, a Pennsylvania contractor, and for the next eight miles to J. W. McManus Co., Ltd., Memramcook, N.B. This eight miles includes a large steel bridge over the Salmon River, and about a mile of line to connect with the New Brunswick Coal and Ry. Co.'s line. Work has been started on this eight mile section.

GRAND TRUNK PACIFIC RY.

Work is in progress at various points on the line between Winnipeg and Portage la Prairie, Man., but the contractors-Treat and Johnstop—are meeting with considerable difficurty in getting men. The McDonald, Mc-Millan Co. expected to finally complete the grading from Portage la Prairie to the Touchwood Hills, 275 miles, by the end of Sept. A report received by the Dominion Government at Ottawa gives details of the progress of construction up to Aug. 31. At that date steel had been laid for 124 miles west of Portage la Prairie, and of this mileage 87 miles is ballasted. Of the grading between Portage la Prairie and Saskatoon, 85%, had been completed. There were 1,100 men and 800 teams at work on the 462 miles between Winnipeg and Saskatoon. On the line between Saskatoon and Edmonton, Alta., the grading is being pushed, and the greater part of the distance is about ready for the ties. Plans have been filed in the Dominion Land Office at Edmonton, showing the route through that city. . A double track is shown, and it branches south at the intersection with the Canadian North-Thence it runs north paralleling ern Ry. the south side of the Queen's avenue school between First and McDougali, then westerly, cutting off the corner of the St. James hotel to McKenzie, and along that avenue due west to Twenty-first St., where it re-crosses the C.N.R. and runs due north, joining the main line in what is known as the Hagman estate. The right of way passes through the grounds of Queen's avenue school, and will also mean the tearing down of the St. James hotel

A recent letter from Barkerville, Cariboo county, B.C., says that about 100 miles of the G.T. Pacific in that vicinity had not been definitely located. Three engineers, Leask, Horner and Gunn, are in the field working to fill the gap. The route being surveyed leaves the north bank of the Fraser

RECTORI grading pany's but the settled. this co betwee of the will fo Pacific charte Pacific when a good be got wagon of the be got The pany's and p Ry. ha ident, has no the li couve tappir

> A of Ch Ottav Board discri Winn Amor by th rates, opera cation of mi new new passe lighti Toron

that r

Cal been Com and (purcl tain. porta yard equip Of passi hote grain ships what mine num nect prov Mite

all o

Man

October 1907

and the Old hed tion ¥ łav. and proable The were not ains reek. s of rcity m of ited. and d by rantv. to road ept., ty.--unis-

> g Co. or of B.C., Aug.,

itters

were

1 has

reek.

s the

s ob-

from sected Chiteut 20 that of ore

ity of inders on at

An agent of the National Transcontinental Ry. Commission is reported to have purchased about three acres for right of way about three miles from Moncton, N.B. Nothing has been done towards purchasing right of way between that point and Moncton, as the exact point of junction with the Intercolonial Ry, does not appear to have been fearly determined upon

Intercolonial Ry, does not appear to have been finally determined upon.

The G.T. Pacific Ry, Co, has sublet contracts as follows: 50 miles west from Moneton to J. H. Corbett, a Pennsylvania contractor, and for the next eight miles to J. W. McManus Co., Ltd., Memramcook, N.B. This eight miles includes a large steel bridge over the Salmon River, and about a mile of line to connect with the New Brunswick Coal and Ry, Co.'s line. Work has been started on this eight mile section.

GRAND TRUNK PACIFIC RY.

Work is in progress at various points on the Work is in progress at various points on the line between Winnipeg and Portage la Prairie, Man., but the contractors—Treat and John-ston—are meeting with considerable diffi-cuity in getting men. The McDonald, Mc-Millan Co. expected to finally complete the grading from Portage la Prairie to the Tonchwood Hills, 275 miles, by the end of Sept. A report received by the Dominion Government at Ottawa rives details of the Covernment at Ottawa gives details of the progress of construction up to Aug. 31. At that date steel had been laid for 124 miles west of Portage la Prairie, and of this mileage \$7 miles is ballasted. Of the grading between Portage la Prairie and Saskatoon, 85", had been completed. There were 1,100 men and 800 teams at work on the 462 miles between Winnipeg and Saskatoon. On the line between Saskatoon and Edmonton. Alta, the grading is being pushed, and the greater part of the distance is about ready for the ties. Plans have been filed in the Dominion Land Office at Edmonton, showing the route through that city. A double track is shown, and it branches south at the intersection with the Canadian North-Thence it runs north paralleling the south side of the Queen's avenue school between First and McDougall, then westerly, cutting off the corner of the St. James to McKenzie, and along that avenue the set to Twenty-first St., where it re-crosses the C.N.R. and runs due north, joining the main line in what is known as the Hagman estate. The right of way passes through the grounds of Queen's avenue school, and will also mean the rearing down of the St. James hotel

A recent letter from Barkerville, Cariboo county, B.C., says that about 100 miles of the G.T. Pacific in that vicinity had not been definitely located. Three engineers, Leask, Horner and Gunr, are in the field working to fill the gap. The route being surveyed leaves the north bank of the Fraser

at Five-mile Bend, above the Grand canyon, goes through a pass at the head of Tonaquah creek, and down that creek to itsemouth on the Fraser, ten miles below the canyon. This part of the line is to avoid following the Fraser through the Grand canyon, where two tunnels would be necessary. The new survey crosses to the south bank of the Fraser; goes up Goat River a short distance, crosses to Bear River; thence via Otter and Eagle lakes to Willow River, and down Willow river to its mouth. It will probably cross to the north bank of the Fraser at the mouth of Little Salmon River, where there will be a single span bridge on solid rock. It is expected that steps will be taken at an early date to let contracts for the 700 miles between Edmonton and Prince Rupert, B.C.

We are advised that a contract has been let to Foley Brothers, Larson & Co. for the grading along a certain portion of the company's projected line in British Columbia, but that details of the same have not been settled. Local press despatches state that this contract covers the grading of the line between Kitamaat and the headquarters of the Copper River, and that the route will follow the location staked out for the Pacific Omineca and Northern Ry., the charter for which was acquired by the G.T. Pacific Ry. A start was made Aug. 17, when the first sod was cut. There will be a good deal of rock cutting, and this will be goue on with throughout the winter. A wagon road will be cut the entire length of the Kitamaat branch, and supplies will be got in during the winter.

The question of the entrance of the company's line into Vancouver is being discussed and press reports state that the charter of the Vancouver, Westminster and Yukon Ry, had been purchased, but J. Hendry, President, is quoted as stating that the line has not been sold. He further stated that the line would be constructed from Vancouver northward with the direct object of tapping the G.T. Pacific Ry., and giving that milway a connection with Vancouver.

A press report states that on the return of Chief Railway Commissioner Killam to Ottawa from the West early in Oct., the Board will take up the complaints of alleged discrimination in freight rates in favor of Winnipeg as against other western points. Among the other questions to be dealt with by the Board are the Bell Telephone Co.'s rates, the express companies' rates, standard operating rules for railways, the re-classification and authorization of new schedules of maximum freight rates, the adoption of new forms for bills of lading, the drafting of new regulations affecting the safety of passenger trains in the matter of heating, lighting, etc., and the settlement of the Toronto union station problem.

Canadian Northern System Terminals has been incorporated under the Dominion Companies Act, with a capital of \$2,000,000 and offices at Toronto, to lay out, construct, purchase, lease or otherwise acquire, maintain, operate and manage term nals, transportation, warehouse and storage facilities, yards, stock yards, etc., and tracks and equipment for the movement, care storage, or handling any merchandise or traffic passenger facilities and accommodation, hotels, parks, amusement resorts, etc.; grain elevators and cleaning plants, steamships and vessels, piers, docks, dry docks, wharves, slips, etc.; smelters and furnaces, mines, power-houses and structures, and for a number of other objects necessary in connection with either of these businesses. The provisional directors are: G. Ruel, A. J. Mitchell, J. B. Robertson, R. P. Ormsby, F. C. Annesley, L. W. Mitchell, Toronto; all of whom are in the employ of Mackenzie, Mann & Co. (Ltd.)

The Governor-General in the speech from the throne at the opening of the current session of the Dominion Parliament referred to the construction of this line. He said a gratifying result of the expansion of trade was that the revenue of the last fiscal period of nine months, ended Mar. 30, 1907, was more than sufficient to meet expenses on Consolidated Fund, National Transcontinental Ry, capital and special outlays, all expenses of the Dominion of every kind, and leave a balance of over \$3,000,000 to be applied in reduction of the public debt. The difficulty of obtaining labor and materials at a time of great business activity has somewhat retarded the construction of the N.T.R., but notwithstanding that great progress has been made on the Eastern Division and on the Prairie Section of the Western Division under construction by the G.T. Pacific Ry. Co. A section of the latter of about 250 miles has been available for handling the freight traffic of the present season. Contracts for the portion of the Prairie Section west of Edmonton are about to be let, and immediate steps will be taken for the commencement of work at both the eastern and western ends of the Mountain Diarison. Thus, in a very short time, the whole work from Moncton to the Pacific Ocean will be under vigorous construction.

the whole work from Moncton to the Pacific Ocean will be under vigorous construction.

The report of the Commissioners of the N.T.R. for the year ended June 30, 1906, dated Ottawa, Oct. 9, 1906, has been laid before the House of Commons. A report for the nine months ended Mar. 30, 1907, was laid on the table of the House of Commons Nov. 29. The total expenditure amounts to \$5,537,867, of which the Purchasing Department expended \$224,880 for supplies. The greater portion of the expenditure was on account of surveys and payments to contractors on progress estimates. The expenses at the headquarters in Ottawa totalled \$166,191. The total expenditure from Sept., 1904, to March 31. 1907, was \$8,147,494. Of the \$224,880 expended on supplies all was spent in Canada, except \$1,833 for goods from Great Britain, and \$444 for purchases from the U.S.

H. D. Lumsden, Chief Engineer, states that the first location from Moncton, N.B.,

H. D. Lumsden, Chief Engineer, states that the first location from Moncton, N.B., to St. Boniface, Man., is practically completed, and that \$52 miles are under construction. The total distance from Moncton to St. Jean Chrysostome will be 453 miles, a saving of only 34 miles as compared with the Intercolonial Ry. The entire distance to Winnipeg is 1,817, as against 1,890 originally estimated. During the year contracts for supplying 80-lb, steel rails were awarded to the Dominion Iron & Steel Co. and the Algoma Steel Co. at \$34 a ton.

Spliced bars were ordered from the Nova Scotia Steel Co. for \$47.04, from the Hamilton Steel & Iron Co. at \$43.68; bolts and nuts from the Toronto Bolt and Forge Co. at \$3.60 per 100 lbs., at \$3.41 from the Gananoque Forge Co., and at \$3.57 from the Montreal Rolling Mills Co.; spikes from the Peck Rolling Mills Co.; spikes from the Peck Rolling Mills Co. at \$2.50 per 100 lbs., and from the Montreal Rolling Mills, the Toronto Bolt and Forge Co., and the Hamilton Steel Co. at \$2.55 per 100 lbs. The contracts were awarded to J. G. Hearn, of Quebec, at prices varying from 44 to 50 cents each, and to R. Bates, of Kenora, at 35 and 40 cents. In connection with the supply of ties for the section immediately east of Winnipeg, Mr. Lunsden complained that several tenderers were not able to fulfil their contracts by reason of the refusal of the Outario Government to grant permits to cut. The price to be paid for bridge superstructures varies from \$4.04 to \$4.18 per pound to the Locomotive and Machine Co. of Montreal, and \$3.95 to \$4.23 to the Dominion Bridge Co., Montreal. For the inspection of material and workmanship of bridges, an inspection company was paid at the rate of 45 cents a ton, and for dastenings at 20 cents a ton.

The reports of the district engineers are appended. G. C. Dunn, Fredericton, N.B., expresses the opinion that the selection of the Central route through New Brunswick will mean the passenger time between Quebec and Moneton about an hour and for freight train two hours less than the time which would have been required if the river route had been selected. A. E. Doucet, Quebec, reports that good progress is being made with construction work. At the close of March the contractors had 3,297 men at work

A. N. Molesworth reports that on section C there has been good progress on surveys as far as the Gatineau River, and S. R. Poulin of district D states that his surveys have been nearly completed. On district E, which runs to the height of land, Engineer Armstrong reports good country. There will be 36 bridges on this section. A. E. Flodgins, who had supervision of the section west of Superior Jet., reports that the contractors have been embarrassed by scarcity of labor, but that the sub-letting of contract by J. D. McArthur, Ltd., has had beneficial results. There has been trouble with illicit whiskey sellers. Seventeen men have been killed and 26 injured in the work owing to recklessness in handling dynamite. A return has been ordered by the House

A return has been ordered by the House of Commons at the request of Mr. Schell, M.P., showing the quantities used by the N.T.R. Commission for arriving at the moneyed values of the tenders for the construction of the 50 miles, more or less, from Moncton westerly; the 62 miles, more or less, from Grand Falls westerly; from the south side of the St. Lawrence River easterly 150 miles; for the 45 miles, more or less, westerly from near La Tuque; and for the 150 miles ensterly from near Abitibi; the prices placed opposite the several items by each tenderer, and the total amount so ascertained of each tender.

The final location for the first 12 n iles southensterly from the Quebec Bridge has been definitely decided upon, and a plan, together with a book of reference, has been deposited with the Registrar of Deeds for the County of Levis. The line has already been fenced and considerable trestle, work and excavating done. Operations have ceased for the season.

Replying to a question in the House of Commons Dec. 4, the Minister of Railways stated that 800 miles of the G.T. Pacific Ry were under construction west of Winnipey, but there was no construction west of

The Governor-General in the speech from the throne at the opening of the current session of the Dominion Parliament referred to the construction of this line. He said a gratifying result of the expansion of trade was that the revenue of the last fiscal period of nine months, ended Mar. 30, 1907, was more than sufficient to meet expenses on Consolidated Fund, National Transcontinental Ry, capital and special outlays, all expenses of the Dominion of every kind, and leave a balance of over \$3,000,000 to be applied in reduction of the public debt. The difficulty of obtaining labor and materials at a time of great business activity has somewhat retarded the construction of the N.T.R., but notwithstanding that great progress has been made on the Eastern Division and on the Prairie Section of the Western Division under construction by the G.T. Pacific Ry. Co. A section of the latter of about 250 miles has been available for handling the freight traffic of the present season. Contracts for the portion of the Prairie Section west of Edmonton are about to be let, and immediate steps will be taken for the commencement of work at both the eastern and western ends of the Moun-Thus, in a very short time, tain Division. the whole work from Moncton to the Pacific Ocean will be under vigorous construction.

The report of the Commissioners of the N.T.R. for the year ended June 30, 1906, dated Ottawa, Oct. 9, 1906, has been laid before the House of Commons. A report for the nine months ended Mar. 30, 1907, was laid on the table of the House of Commons Nov. 29. The total expenditure amounts to \$5,537,867, of which the Purchasing Department expended \$224,880 for supplies. The greater portion of the expenditure was on account of surveys and payments to contractors on progress estimates. The expenses at the headquarters in Ottawa totalled \$166,191. The total expenditure from Sept., 1904, to March 31, 1907, was \$8,147,494. Of the \$224,880 expended on supplies all was spent in Canada, except \$1,833 for goods from Great Britain, and \$444 for purchases from the U.S.

H. D. Lumsden, Chief Engineer, states that the first location from Moneton, N.B., to St. Boniface, Man., is practically completed, and that 852 miles are under construction. The total distance from Moneton to St. Jean Chrysostome will be 453 miles, a saving of only 34 miles as compared with the Intercolonial Ry. The entire distance to Winnipeg is 1,817, as against 1,890 originally estimated. During the year contracts for supplying 80-lb. steel rails were awarded to the Dominion Iron & Steel Co. and the Algoma Steel Co. at \$34 a ton.

Co. Dom msp(of 1 paid faste of ra 11 appe expr the will bec freig whic rout Quel made of h at w A. Ct as f Poul have F., W Arm Will Hod west trac of l trac bene with have OWIT A of (M.P NI mon stru Mon less. sout erly WEST 150 price each asce T sout been toge depo the beer and ceas

January 1908

R

Com

stati Rv.

peg,

of March the contractors had 3,297 men at work

A. N. Molesworth reports that on section C there has been good progress on surveys, as far as the Gatineau River, and S. R. Poulin of district D states that his surveys have been nearly completed. On district E, which runs to the height of land, Engineer Armstrong reports good country. There will be 36 bridges on this section. A. E. Hodgins, who had supervision of the section west of Superior Jct., reports that the contractors have been embarrassed by scarcity of labor, but that the sub-letting of contract by J. D. McArthur, Ltd., has had beneficial results. There has been trouble with illicit whiskey sellers. Seventeen men have been killed and 26 injured in the work owing to recklessness in handling dynamite.

A return has been ordered by the House of Commons at the request of Mr. Schell, M.P., showing the quantities used by the N.T.R. Commission for arriving at the moneyed values of the tenders for the construction of the 50 miles, more or less, from Moneton westerly; the 62 miles, more or less, from Grand Falls westerly; from the south side of the St. Lawrence River easterly 150 miles; for the 45 miles, more or less, westerly from near La, Tuque; and for the 150 miles easterly from near Abitibi; the prices placed opposite the several items by each tenderer, and the total amount so ascertained of each tender.

The final location for the first 12 n iles southersterly from the Quebec Bridge has been definitely decided upon, and a plan, together with a book of reference, has been deposited with the Registrar of Deeds for the County of Levis. The line has already been fenced and considerable trestle work and excavating done. Operations have ceased for the season.

Replying to a question in the House of Commons Dec. 4, the Minister of Railways stated that 800 miles of the G.T. Pacific Ry. were under construction west of Winnipeg, but there was no construction west of

January 1908

Edmonton. East of Winnipeg there were 860 miles under construction. The estimated cost of grading, tracklaying and ballasting, including cost of ties and rails, on the portions let between Winnipeg and Edmonton, was \$18,400,000; between Edmonton and the costs \$60,700,000; and between Winnipeg and Moncton, \$41,946, 258; this amount includes engineering and contingencies. The mileage from Moneton to Winnipeg was 1,807, 1, from Winnipeg to Edmonton, \$00; and from Edmonton to the coast, 940 miles. The mileage from Edmonton to the coast, 940 miles. The mileage from Edmonton to the Coast, 940 miles, the mileage of the Coast fast of the Department by the C.T. Pacific Ry, so that the mileage on that section is approximate, being merely from the preliminary surveys.

GRAND TRUNK PACIFIC RY.

The annual meeting of shareholders with held in Montreal Dec. 5, having been indipourned from the third Wednesday in Sept., the official date for holding the meeting. The directors elected are: Sir C. Rivers Wilson, A. W. Smithers, Lord Welby, J. A. Clutten-Brock, Sir W. L. Young, representing the G.T.R., the three latter taking the place of Col. Firebrace, Sir H. M. Jackson, and Thon, C. Rothschild, it being the practice of the G.T.R. directors to serve in rotation on the G.T. Pacific Ry, Board, C. M. Hays, F. W. Morse, W. Wainwright, E. H. Fitzhugh, W. H. Biggar, H. A. Alkan, E. B. Greenshields, Hon, G. A. Cox, E. R. Wood, J. R. Booth, are the Canadian directors. The report of the directors, which is stated to have been made for the purpose of record and not for public distribution, showed that there were 994 miles of line under contract, the construction of which is in charge of the company. This embraces the line from Winnipeg to Edmonton, and also the Lake Superior branch. On the main line of the Eastern Division there is at present 846 miles under contract, the construction of which is in charge of the National Transcontinental Ry. Commissioners, making a total mileage under contract of 1,840 miles, on all of which construction is in progress. Trackinying is proceeding on the Prairie Section from Portage la Prairie westerly to about 280 miles, and casterly from Suskatoon, and it is expected that the rails will be laid between these two points during the winter. The grading is very nearly completed from Winnipeg as far west as Edmonton, and the season of 1908 will in all probability see this section completed. The authorized mileage of the company for its main line and branches was stated by the President to be approximately 7,900 miles.

The substructure of the bridge across the South Saskatchewan River at Saskatoon is completed and the steel superstructure is now being creeted, which, it is expected, will be completed so that tracklaving can proceed from Saskatoon westerly 200 miles to Battle River with the opening of the work next spring, the grading over this portion of the line being now completed. At the latter point a large bridge across Battle River is under construction. This point is 118 miles east of Edmonton, to which place construction will also be prosecuted vigorously next season. Tenders have been asked for the construction of additional mileage from Edmonton westerly about 120 miles. Over such portions of the line as have now been constructed every facility is being extended for the accommodation of the farmers and settlers living along the line that is practicable during construction of the railway prior to its official opening.

of the railway prior to its official opening.

The officers of the company were reelected as follows: President, C. M. Hays;
Vice-President and General Manager, F.
W. Morse; Second Vice-President, W. Wainwright; Secretary, H. Phillips.

F. W. Morse, Vice-President and General Manager, returned to Montreal Nov. 28, after a three months' trip over the lines under construction west of Winnipeg. He said in an interview that he was thoroughly satisfied with the progress that was being made with construction at different points. The company had no reason to be disappointed with the results so far obtained.

appointed with the results so far obtained.

The grading into Suskatoon, Sask, was completed Nov. 25. Tracklaying from the Portage la Prairie end is being carried on, but was suspended, Dec. 9, by the gang working easterly from Saskatoon. At the time of the suspension of work, steel had been laid for 55 miles. It was stated that the cause for the suspension of work was the shortage of material.

the shortage of nunterial Tenders have been asked for the supply of 600,000 ties to be delivered at various points during the winter between Saskatoon and Edmonton. Tenders have also been asked for the grading of 120 miles westerly from Edmonton, and it is expected to call for tenders during the winter for the other 125 miles necessary to carry the line to the Yellow Head Pass.

We are advised that the progress of the work upon the location of the C.T. Pacific Ry, in British Columbia is still at a stage where it is considered advisable to keep the information as the private property of the company, consequently recent press reports purporting to give the route decided upon west of the Yellow Head Pass are in mo way to be accepted as definite. One of the papers mentioning the route referred to C. O. Leask as the Assistant Chief Engineer of the company. We are advised that Mr. Leask is one of the company's locating engineers.

J. W. Stewart, of Foley Bros, and Larson, states that good progress is being made by the firm on its contract for the line between Kitimaat and Kitsilas Canyon, B.C., 45 miles. Contracts are reported to larve been let for the chearing of 2,000 acres of land at Prince Rupert for the company. The contract price is said to be \$220,000.

The G.T. Pacific Branch Lines Co. will

The GT Pacific Branch Lines Co. will apply at the current session of the Dominion Parliament for an act extending the time for the construction of the various lines which it is authorized to law out and operate as branch lines of the GT. Pacific Ry., on the Eastern as well as on the Western Division. (Dec. 1907, pg. 907.)

Transcontinental Railway Contracts.

"A Contractor" writes the Toronto Globe as follows: "I have read with interest the advertisement inviting tenders by the Commissioners of the Transcontinental Railway for six sections. The accepted checks to accompany the tenders for three of the sections are to be for \$100,000 each, and for two of the sections \$75,000 each, and for two of the sections \$75,000 each, and for the other section \$75,000. I would like to ask how many contractors or contracting firms there are in Canada that can tender on these different sections, and put up these large checks, and then give the additional security, which means another accepted check in ease they are awarded any of the work, and carry it on without getting large accommodation or assistance from the banks, and any business man can tell you what help the banks are ready and willing to give during the present money stringency, and in case the bank furnishes the necessary funds it is the bank that is really the contractor.

"In the opinion of many the Railway Commissioners, while no doubt meaning well, are making two serious mistakes, viz., the work is being let in too large sections, and the checks to accompany the tenders are out of seach of the ordinary contractors, are out of seasch of the ordinary contractors, the distance on miles of the six sections now advertised to be let being as follows: 30 miles, 52 miles, 100 miles and 75 miles. It would be much better in many ways if the contracts were let in 10 or 20 mile sections, or, another way, distinct the work way in proper values to the divide the work up in money values to the amount of \$100,000 or \$200,000, still keeping it in miles, etc. Then there would be a chance for the smaller but competent railway contractor. This would also to a large extent do away with the trouble experienced last year in procuring men or help to do the work, as almost every contractor, or contracting firm, has a number of men or a following that they can place on their contracts, and with these there could and would no doubt be distributed a kirge number of the unemployed, who have had no experience in railway construction work, but who would soon acquire it.

"Some will say, why not let the ordinary or smaller contractor sub-contract from the party getting the large contract? Now, this is not desirable, for several reasons, one being the ever-present fear of loss, or failure, etc., on the part of the original contractor, which is avoided in case the contract is direct with the Commission.

The C.P.R. in building their Toronto to Sudbory line, a distance of over 200 miles, did not ask for any check to accompany the tenders received, nor did they require the contractors to whom the different contracts were awarded to put up deposit or security checks, and no doubt they fained in doing this, but they no doubt assured themselves of the competency, financial and otherwise, of the contractors to whom the contracts were given before they awarded them the work.

work.

There are hundreds of contractors in Canada ta-day who could help build the O.T. Pacific Ry, if they were given the opportunity. What is to hinder the half dozen ar so firms of contractors that will tender—owing to the large and out of reason security checks that are required—getting together, and the result being that each would get a section?

"In discussing this matter with a member of Parliament he said he understood that one reason why the work was let in such large sections was that it was easier to deal with one firm than with several. This is nonsense. A division engineer has charge of, say, from 50 to 100 miles, while each 10 or 12 miles of railway construction work

MARCH 1908 has a resident engineer, and as regards officials or office hands at Ottawa, there is no scarcity, and more can be got if required.

"The net result of the present system will likely be that two or three, or, at the most, a half a dozen wealthy men or corporations will get the whole at higher prices than would otherwise prevail if the work was let in smaller portions, as it should be. The above is not written in an antagonistic spirit to the Dominion Government or the Transcontinental Commission, but with the idea and hope of an improvement."

Toronto Union Station, Tracks, Etc.

Freight Freight Nelson,

oliciting ceeding

ain Dey chief npany's retired

go, Ill., tinuous I, under

Canada s been f.R., at General

re is no papers, . Dickanic on employ as the

ointed: Campy, Ont.,

-G. C. endent, S. Sulli: whole it, and Office,

Claims ovincial

, heres been anager,

er, has

-J. D. mager, Office,

is been nt for e St., affect ains as

he rerarious innati, 1 with n Rd., head-2 Vice-

National Transcontinental Railway.

Tenders will be received by the Commissioners of the Transcontinental Ry. to Mar. 10 for the construction of the following additional sections of the line:

DISTRICT A.—From about 58 miles west of Moneton, N.B., to the crossing of the Intercolonial Ry., at mileage 97.7, a distance of 39.7 miles. From the latter point to the Tobique River, at about mileage 165.7, less one mile, about 67 miles. From the Tobique River to about 2½ miles west of Grand Falls, N.B., about 31.5 miles.

DISTRICT B.—From the Quebec-New Brunswick boundary westerly for about 52.4 miles.

DISTRICT D.—From about eight miles west of the crossing of the Abitibi River, Ont., westerly for 100 miles.

DISTRICT E.—From about 19.5 miles west of the crossing of Mud River, near Lake Nepigon, Ont., easterly for 75 miles.

The three sections to be tendered for in New Brunswick, with the sections now under contract, cover the entire mileage in that Province with the exception of a short distance at Moneton, the location of which has not been finally determined. The section in District B will connect up the contract for 150 miles easterly from the southern end of the Quebec Bridge, held by the Messrs. Davis, and the section from Great Falls to the New Brunswick-Quebec boundary held by Lyons & White. The section in District D runs westerly from near the junction with the Temiskaming and Northern Ontario Ry., which will be completed to that point during the summer, and so enable construction supplies to be got in. The section in District E will touch at a point to be reached by the navigable waters of Lake Nepigon, and is being let so that supplies can be got in by water.

Replying to a question in the House of Commons, Feb. 3, the Premier said there were approximately 1,803 miles of the line between Moncton, N.B., and Winnipeg, Man., located. About four, miles remained to be located. About 859 miles were under contract, and tenders had been asked for an additional 365 miles. It was estimated that the obligations already entered into on account of the construction of the line amounted to about \$38,000,000. Disbursements to Jan. 28, on account of the line, were \$21,364,364.

Track has been hid at a number of points of the line under contract between the Quebee Bridge and La Tuque, Que., totalling altogether 34 miles, and from St. Boniface, Man., easterly, at a number of points, totalling 49 miles. This track will not exceed two or three miles in any one particular place, and has been laid to facilitate construction.

MARCH 1908 lLD 261

National Transcontinental Railway:

The total estimated length of the main line from Moneton, N.B., to Winnipeg, is 1,804 miles, and we are officially advised that the surveyed mileage is the same, and that with the exception of some revision at a few points the whole of the line has been located. Contracts for construction have been let covering in all about 859 miles exclusive of the mileage for which tenders are now under consideration as referred to below. The mileage under contract is distributed as follows: New Brunswick, 119 miles: Quebec, 150 miles east and 195 miles west of the St. Lawrence River, and 78 miles easterly from the Ontario boundary; On-tario, 72 miles from the Quebec boundary westerly, and 158 miles from the Manitoba boundary easterly; Manitoba, 87 miles from Winnipeg easterly. The mileage of grading done on the various contracts let in the several provinces was, at the latest reports, approximately: New Brunswick, 16 miles Quebec, east of the St. Lawrence River, 11 miles; Quebec, west of the St. Lawrence River, 101 miles; Western Ontario and Manitoba, 171 miles. Track has been laid in Quebec west of the St. Lawrence River on \$\frac{34}{24}\$ miles, and in Manitoba easterly from Winnipeg, on 49 miles. The maximum gradients are 0.4% eastbound, and 0.6 westbound, except at two points; and the sharpest curvature is 6°. The bridges and trestle are being constructed to stand the test of two 180-ton consolidation locomotives followed by a load of 4,750 lbs. per lineal foot. The tunnels are being constructed 16 ft. wide and 23 ft. 9 in, high on tangents. steel being laid is 80 lbs. to the vard.

Tenders are under consideration by the Commissioners of the Transcontinental Ry. for the construction of several sections of the

Eastern Division as follows:

District A.—From about 58 miles west of Moncton, N.B., to the crossing of the Intercolonial Ry, at mileage 97.7, a distance of 39.7 miles. Only one tender has been received,

namely, that of the G.T. Pacific Ry, Co. From mileage 97.7 to the Tobique River, at about mileage 165.7, less one mile, about 67 miles. The tenders received were from the G.T. Pacific Ry. Co., and Macdonald &

O'Brien.

From the Tobique River to about 3,5 miles west of Grand Falls, N.B., about 31.5 miles. Tenders have been received from the G.T. Pacific Ry. Co., Craig & Thompson, Mac-donald & O'Brien, M. P. & J. T. Davis, Ken-nedy & McDonald, the Willard Kitchen Co.; Trites, McPhail, Mayor & Miller.

District B. From the Quebec-New Brunswick boundary westerly for about 52.4 miles. Tenders have been received from the G.T. Pacific Ry., O'Brien & Fowler, M. P. & J. T. Davis.

District D. From about eight miles west of the crossing of the Abitibi River, Ont., westerly for 100 miles. The tenders under consideration are from the G. T. Pacific Ry. Co. and E.F. & G. E. Fauquier.

District E.-From about 19,5 miles west of the crossing of Mud River, near Lake Nepigon, Ont., easterly for 75 miles. Tenders have been received from the G.T. Pacific Ry. Co., J. D. McArthur, E. F. & G. E. Fauquier, Chambers Bros., McQuigge & McCaffrey.

J. D. McArthur, contractor for the section of the line from Winnipeg eastery to Lake Superior Junction, Ont., 250 miles, was in Montreal Mar. 11. He said the firm had about 7,000 men at work all winter on the contract, and the weather had been such that not a single day had been lost. About 60 a of the entire work had been done. While the While the first estimate of the cost of the 250 miles had been \$13,000,000, so many changes had been made that the actual outlay would be well

April 1908

The total estimated length of the main line from Moncton, N.B., to Winnipeg, is 1,804 miles, and we are officially advised that the surveyed mileage is the same, and that with the exception of some revision at a few points the whole of the line has been located. Contracts for constructions have been let covering in all about 850 miles exclusive of the mileage for which tenders are now under consideration as referred to below. The mileage under contract is distributed as follows; New Brunswick, 119 miles; Quebec, 150 miles cast and 195 miles west of the St. Lawrence River, and 78 miles casterly from the Ontario boundary; Ontario, 72 miles from the Quebec houndary westerly, and 158 miles from the Manitoba boundary easterly. The mileage of grading done on the various contracts let in the several provinces was, at the latest reports, approximately: New Brunswick, 16 miles Quebec, east of the St. Lawrence River, 4D miles; Quebec, west of the St. Lawrence River, 4D miles; Quebec, west of the St. Lawrence River, 4D miles; Quebec west of the St. Lawrence River on 34 miles, and in Manitoba ensterly from Winnipeg, on 40 miles. The maximum gradients are 0.4% eastbound, and 0.6 westbound, except at two points; and the sharpest curvature is 6%. The bridges and treste are being constructed to stand the test of two 180-ton consolidation locomotives followed by a load of 4,750 lbs, per lineal foot. The tunnels are being constructed 16 ft. wide and 23 ft. 9 in, high on tangents. The steel being laid is 80 lbs. to the yard.

Tenders are under consideration by the Commissioners of the Transcontinental Ry, for the construction of several sections of the Eastern Division as follows:

District A.— From about 58 miles west of Moneton, N.B., to the crossing of the Interecologial Ry. at mileage 97.7, a distance of 39.7 miles. Only one tender has been received, namely, that of the G.T. Pacific Ry. Co.

From unleage 97.7 to the Tobique River, but about mileage 165.7 less and mile.

From mileage 97.7 to the Tobique River, at about mileage 165.7, less one mile, about 67 miles. The tenders received were from the G.T. Pacific Ry. Co., and Macdonald & O'Brien.

From the Tobique River to about 3.5 miles west of Grand Falls, N.B., about 31.5 miles. Tenders have been received from the G.T. Pacific Ry. Co., Craig & Thompson, Macdonald & O'Brien, M. P. & J. T. Davis, Kennedy & McDonald, the Willard Kitchen Co.; Trites, McPhail, Mayor & Miller.

District B.—From the Quebec-New Brunswick boundary westerly for about 52.4 miles. Tenders have been received from the G.T. Pacific Ry., O'Brien & Fowler, M. P. & J. T. Dueis.

District D.—From about eight miles west of the crossing of the Abitibl River, Ont., westerly for 100 miles. The tenders under rousideration are from the C. T. Pacific Ry. Co. and E. F. & C. E. Fauquier.

District E.—From about 19,5 miles west of the crossing of Mud River, near Lake Nepigon, Out., easterly for 75 miles. Tenders have been received from the G.T. Pacific Ry. Co., J. D. McArthur, E. F. & G. E. Fauquier, Chambers Bros., McQuigge & McCaffrey.

Chambers Bross, McQuigge & McCanrey.

J. D. McArthur, contractor for the section of the line from Winnipeg castery to Lake Superior Junction, Out., 250 miles, was in Montreal. Mar. 11. He said the firm had about 7,000 men at work all winter on the contract, and the weather had been such that not a single day had been lost. About 60 % of the entire work had been done. While the first estimate of the cost of the 250 miles had been \$13,000,000, so many changes had been made that the action outlay would be well.

on to \$16,000,000. The changes made had all been for the improvement of the line.

GRAND TRUNK PACIFIC RV.

Soundings have been taken in the Red River at Winnipeg with a view of deciding on the foundation for the bridge to connect with St. Boniface. Tracklaving on the line between Portage la Prairie and Saskatoon has been resumed, and will be pushed until the gap of 65 miles left, when work had to be suspended Feb. 10, has been closed. Ballasting was expected to commence by the end of March, and the surfacing gang was unnonneed to have been engaged to start work April I. West of Saskatoon the grading has been completed to the Battle River, and two of Foley Bros. & Larson's camps have been at work all winter on the grading. One camp is located just across Battle River and the other just east of Clover Bar, where the line crosses the North Saskatchewan River-Under favorable conditions it is expected to have the grading from the Battle River to Edmonton completed early in the spring. At the Battle River the work of building the bridge is going on satisfactorily. However, it is not thought that Gunn & Sons, who have the contract for the cement work, will have it done till May, and that by the time the steel is on it will be late in the fall. The bridge is quite a bit larger than the one across the South Saskatchewan at Saskatoon. On the line west of Edmonton, Altar, sub-contracts of 30 miles each are reported to have been let by Foley, Welsh & Stewart to J. McAllister, M. McKenzie, and B. Baker. The remaining section of 30 miles of the contract, it is said, will be let in one or two mile sections,

The British Columbia Legislature, Mar. 7. passed the act ratifying the agreement be-tween the company and the Provincial Government with respect to the Prince Rupert townsite. Under the agreement the Province disposes of its reversionary rights to the 14,118 acres bought from the Indians of Metlakatla by the railway company at the rate of \$2,50 an acre. One-quarter of the lots and blocks into which this land may be subdivided by the company is to be reconveyed to the Province, the chief commisreyed to the Frovince, the chief commis-sioner to select one lot first, and the railway company three mill the entire one-quarter is reconveyed. The Province pays one-quarter of the cost of the survey and subdivision. A free grant of a right-of-way not exceeding 100 ft. in width through from the coast to the eastern boundary of the Province is made to the company. Through Province is made to the company. Through the lands on Kaien Island and the Tsimpsean Reserve the right-of-way is to be but 60 ft. in width, and the plans must be approved by the Lieutenant-Governor-in-Council. The Province grants lauds necessary for sidings. stations, etc., to the railway company, the area of such grams to be subject to the approval of the Lieutenant-Governor-in-Council. The railway company agrees to begin actual construction work by June 1, to purchase all material and supplies required, if the terms are similar to those upon which the said supplies may be obtained elsewhere within the Province A fair wage clause is included in the Act. The railway is granted exemp-tion from taxation until Dec. 31, 1921, according to the terms of the railway assessment

W. Wainwright, Second vice-President G.T. Pacific Ry., stated Mor. 17, that tenders would shortly be asked for a further 200 miles of the mountain section of the line. A contract has been let to Foley, Welsh & Stewart, for the first 100 miles of the line from Prince Ruperteasterly. (Mar., pg. 197).

Traffic on the Middleton and Victoria Beach line of the Halifax and Southwestern Ry, was reopened Mar. 9, after having been Rail

Buffalo of the dir 31, 1907, the intere bonds the ls. 9d., w the usual leave a ba forward warrants pany's li £70,000 : stock and 9s. 4d., stocks ar ordinary mortgage second a The expa directors' 17s. 3d. f

Canadi cently st £2,000,00 par, the lower th Governm

Canadi lie inquis this com Eng., for struction Rv., has

Consol has been of New J vote upe with Ph bankers provense vote on for Nov injunctic until the

The a from tin Mar. 18

Press the com 1907, si terest at \$214,000

The a which h further Crow'

director \$382,98

Adding profit a new ste from wl dividen been tr. \$381,39 During provem \$21,735 \$57,581 Michel: director G. S. Li Hon. 1 Preside urer, E E. C. Col. W Spokan

Delay has been restrain quarter It is continued the inbeen est April 1908

Tenders will be received by the Commissioners of the Transcontinental Ry, to Mar. for the construction of the following

10 for the construction of the following additional sections of the line:

DISTRICT A.—From about 58 miles west of Moneton, N.B., to the crossing of the Intercolonial Ry., at mileage 97.7, a distance of 39.7 miles. From the latter point to the Tobique River, at about mileage 165.7, less one mile, about 67 miles. From the Tobique River to about 25 miles west of Grand Falls, N.B., about 31.5 miles.

DISTRICT R.—From the Quebec-New Brunswick boundary westerly for about 52.4 miles.

52.4 miles.

DISTRICT D.—From about eight miles west of the crossing of the Abitibi River,

Ont., westerly for 100 miles.

DISTRICT E.—From about 19.5 miles west of the crossing of Mud River, near Lake Vanian. Ont. postarily for 75.

Nepigon, Out., easterly for 75 miles.
The three sections to be tendered for in New Brunswick, with the sections now under contract, cover the entire mileage in that Province with the exception of a short that Province with the exception of which distance at Moncton, the location of which has not been finally determined. in District B will connect up the contract for 150 miles easterly from the southern end of the Quebec Bridge, held by the Messrs. Davis, and the section from Great Falls to Davis, and the section from Great rails to the New Brunswick-Quebec boundary held by Lyons & White. The section in District D runs westerly from near the junction with the Temiskaning and Northern Ontario Ry, which will be completed to that point during the summer, and so enable construc-tion supplies to be got in. The section in tion supplies to be got in. The section in District E will touch at a point to be reached by the navigable waters of Lake Nepigon, and is being let so that supplies can be got in by water.

Replying to a question in the House of Commons, Feb. 3, the Premier said there were approximately 1,803 miles of the line between Moncton, N.B., and Winnipeg, Man., located. About four miles remained to be located. About 850 miles were under contract, and tenders had been asked for an additional 365 miles. It was estimated that the obligations already entered into on account of the construction of the line amounted to about \$38,000,000. Disbursements to Jan. 28, on account of the line, were \$21,364,364.

Track has been laid at a number of points of the line under contract between the Quebec Bridge and La Tuque, Que, totaling altogether 34 miles, and from St. Boniface. Man., easterly, at a number of points, totalling 49 miles. This track will not exceed two or three miles in any one particular place, and has been laid to facilitate construction.

GRAND TRUNK PACIFIC RY.

Grand Trunk Pacific Ry.

In an interview, Feb. 12, the Mihister of Public Works stated that he had been waited upon by C. M. Hays, President, and F. W. Morse, Vice-President and General Januager C.T. Pacific Ry., in connection with the provision of terminal facilities for the company on Courtenay Bay, St. John, N.B. Both these officials expressed themselves as being favorably impressed with the advantages which the bay would furnish for the purposes of the railway. He had discussed the matter with the Premier and several of his colleagues and they had expressed a willingness to make jointly with several of ms codeagues and they and expressed a willingness to make jointly with the city a conveyance of such foreshore rights as were necessary to the G.T. Pacific Ry. The subject of having borings made in order to lest the character of the bottomhad also been discussed, and the Government was willing to Join with the city in bearing the expense of making the same.

Track has been laid on the Lake Superior

freight, consisting almost entirely of muse stores and timber. National Transcontinental Ry. Contracts were awarded. Mar. 28, for six sections of the railway, aggregating 366 miles, as follows: To the G.T. Pacific Ry. Co.—From a point 58 miles west of Moneton, N.B., westward for 39.7 miles; and from the latter point westward to the Tobique river, N.B., 67 miles. To the Willard-Kitchen Co.-From the Tobique river to Grand Falls, N.B., 31.5-To M P. & J. T. Davis-From the Quebec-New Brunswick boundary westward 52.4 To E. F. & G. E. Fouquier -From a point 8 miles west of the Abitibi river, Ont., westward 100 miles; and from Lake Nepigon

/. it :;

0 4

ul d

5.

11

s.

d

ar.

1-

ud

IC

6;

d

westward 75 miles.

April 1908

Contracts were awarded. Mar. 28, for six sections of the railway, aggregating 366 miles. as follows:

To the G.T. Pacific Ry, Co. -From a point 58 miles west of Moneton, N.B., westward for 39.7 miles; and from the latter point westward to the Tobique river, N.B., 67 miles.

To the Willard-Kitchen Co. - From the Tobique river to Grand Falls, N.B., 31.5

miles

To M. P. & J. T. Davis—From the Quebec-New Brunswick boundary westward 52.4 miles

To E. F. & G. E. Fouquier -From a point 8 miles west of the Abitibi river, Ont., westward 100 miles; and from Lake Nepigon westward 75 miles.

The Dominion Parliament at its current session voted \$3,750,000 on account of surveys and construction; \$250 as remuneration of A. Brunet, Government director G.T. Pacific Ry. Co., and \$3,500 on account of inspection of the G.T. Pacific Ry.

In a recent speech in the House of Commons the Minister of Railways said the length of the Government section of the line from Moneton, N.B., to Winnipeg, Man., was 1,807 miles, and with the exception of about three or four miles at the entrance to the Winnipeg terminals, and a few points where revision may be made of the present location to reduce gradients, and distances on work, the location surveys had been completed. The necessary rails and fastenings covering the portions of the line under contract, excluding the 365 miles placed under contract at the end of March, had been arranged for, and a large portion delivered. The ties for the 150 miles west of the St. Lawrence River and the 245 miles easterly from Winnipeg, had been contracted for and large deliveries had been made. The ties for the other contracts previously let were included in the contract for grading. tracts for the steel bridges required on the 150 miles westerly and 50 miles easterly of the St. Lawrence River, and for the 245 miles easterly from Winnipeg, were all entered into and considerable progress had been made for the manufacture and erection of the same. Replying to a question in the House of Commons, April 14, the Minister of Railways said contracts had been let for the whole distance from Moneton, N.B., to Weymontachene, Que., 193 miles west of Quebec, and 656 miles west of Moneton. Between Weymontachene and Winnipeg, 1,147 miles, there were under contract 571 miles, the gaps being: from Weymontachene westerly for 221 miles; from Lake Superior Junction east, 148 miles; and from the section to be constructed east and west of the Temiskaming and Northern Ontario Ry. westward, 204 miles. estimated cost of the sections under contract was \$44,389,393, and of the sections not under contract, \$19,030,173. The average estimated cost of the sections under contract was a little over \$36,000 a mile.

With respect to the contracts recently awarded, it is reported that the section between the Tobique River and Grand Falls, N.D., 31.5 miles, let to the Willard Kitchen Co., covers the heaviest work east of the Rocky Mountains. There is a good deal of rock cutting on the work, and the engineering features include the construction of a tunnel over 1,000 ft. long through rock; long bridges over the Salmon and Tobique rivers, and the disposal of a lake. A number of sub-contracts will be let.

The St. John, N.B., Board of Trade has passed a resolution bringing before the Government the importance of St. John as a port, and urging the necessity of the construction of a branch line to connect it with the Transcontinental Railway at Chipman or Wood-tock. The Board is desirous of St. John having the same treatment as it is proposed to give to Montreal. A deputation from the latter city waited on the Government, Mar. il, to urge the immediate construction of a line to give connection with the N.T. Ry., and the Premier in reply admitted that the line would not be complete without a connection with Montreal. The Government, how-ever, had many large works in hand and was being urged to undertake others-additional railways and the Georgian Bay canal. The proposed works could not be undertaken without full consideration, but the present Parliament did not expire for 18 months, so there was plenty of time for the Government to deal with the question and to enter into contracts before the elections came on.

GRAND TRUNK PACIFIC RY.

The Minister of Railways made a statement in the House of Commons recently with respect to the work done upon the main line of the G.T.P.R. The information practically covers the position of construction when work was suspended for the winter, and is as follows:

Grading, Culverts and Wooden Bridges—From mileage 0 to 13. No grading has been done, the work is very light, merely surfacing. From mileage 13 to 650. The grading is practically completed, merely a few narrow cuttings remaining to be widened, and a few embankments not yet fully brought up to grade level, to be completed. The culverts and wooden structures are about completed. From mileage 650 to 796. Considerable grading has been done in patches, aggregating about 54 miles. There, however, yet remain about 1,750,000 cubic yards of excavation to be done to complete the grading. A large proportion of the culverts are built and the pile foundations of about 75 per cent. of the bridges are driven.

STEEL BRIDGES.—Mileage 45. The Assini-boine River is to be crossed by a steel bridge 415 ft long, 34 ft. high, one span of 255 ft. and two spans of 80 ft. each. The concrete piers are in course of construction, one having been completed and three others being worked upon, but not far advanced beyond the excavation of foundation, which is completed. At mileage 460. The South Sas-katchewan River is crossed by a steel bridge 1,497 ft. long and 74 ft. high; of one span 50 ft., one of 127 ft., one of 175 ft. and five of 229 ft. The concrete piers and abutments are completed, and the steel superstructure is delivered at the site of the structure. Two is delivered at the site of the structure. Two spans are erected and the work of erection is being continued. At mileage 675. The Battle River is to be crossed by a steel bridge 2,770 ft. long and 180 ft. high. The work is in progress on the concrete piers, pedestals and abutments, of which there will be two piers, 100 pedestals and two abutments. Many of the foundations are excavated, but concreting may be said to have only just been commenced. Work is still in progress, the piers, etc., being housed in and kept warm during the building up of the concrete. At mileage 787. The North Saskatchewan River is to be crossed by a steel bridge 1,647 ft. long, 136 ft. high; of four spans 40 ft. 10 of 50 ft. two of 150 ft., three of 229 ft. The 28 concrete pedestals, two abutments and two of the piers are completed. The work of building the last remaining two concrete piers is in progress; they are housed in and kept warm during the progress of the work. In addition to the steel bridges mentioned, there is the bridge over the Assinboine River at St. Lazare—at mileage 203—250 ft. long, which is being crossed by a temporary timber

Tracklaying and Ballasting.—Track is laid from mileage 45 to mileage 326, and from mileage 426 to mileage 468, aggregating 310 miles; in addition to which 47 sidings are laid in. From mileage 53 to 140, the road is full ballasted and lifted. From mileage 140 to 213, it is half ballasted with a first lift.

Buildings, Etc.—At mileage 43 (Portage la Prairie) a union station of brick is in course of erection, and is nearing completion. At mileage 141 (Rivers) a station is in course of erection. At mileage 385 (Nokomis) a station has been erected. At mileage 141 (Rivers divisional station) an engine-house and machine shop and boiler-house are in course of erection; the work is advanced to the extent of about 90%. At mileage 277 (Melville divisional station) an engine-house and machine shop are in course of erection; about 35% of the work is executed.

WATERTANKS, FENCING, ETC -At milenge 141 (Rivers divisional station, a well and

watertank are being provided, about 80% of the work being done. A watertank and pump have been erected at mileage 202, and about 25% of the work has been done on a watertank at mileage 217. West of Portage la Prairie, Man., 46 miles of fencing have been put up. A telegraph line has been erected for 271 miles.

No construction has been done west of Edmonton, Alta., with the exception of a wharf at Prince Rupert. The route through the Rocky Mountains is to be by the Yellowhead Pass, which is considered to be a better pass in every way than any of the others except so far as the curvature was concerned. The grades are easier, but the curvature is greater. The total cost is considerably less, and the Government is interested in this on account of the guarantee of bonds given. The estimated cost of the line by the Yellowhead Pass route, exclusive of terminals, is \$42,115,500, being \$4,536 100 less than the cost by the Pine River Pass route: \$3,400,000 less than by the Wapiti Pass route, and \$6,-251,000 less than by the Peace River Pass The distance from Edmonton to the route. Pacific Ocean by the selected route is 955 miles.

Of the Prairie section of the G.T. Pacific Ry., it is anticipated that the portion between Winnipeg and Edmonton, about 793 miles, will be completed and opened for traffic this year. F. W. Morse, Vice-President and General Manager, who returned to Montreal, April 2, stated that there remained about 40 miles of line to be completed between Portage la Prairie and Saskatoon, and some few miles between Portage la Prairie and Winnipeg. The company is working to complete these portions of the line with a view of instituting a train service between Winnipeg and Saskatoon July I. A despatch from Portage la Prairie, April 14, stated that tracklaying had been resumed on the line towards Winnipeg, and it was expected to complete the tracklaying into Winnipeg early Tracklaying is also in progress on in May. the remaining portion of the line connecting up Saskatoon. The last span of the bridge over the South Saskatchewan River at Saskatoon has been completed, and construction trains were operated over it early in April.

West of Saskatoon, with the exception of the work at a small muskeg 25 or 30 miles out, the grading has been finished as far as the Battle River, where the steel building gang will take up work early in the summer. About 220 miles of track will have to be laid between Saskatoon and the Battle River, and it is possible that track will be laid to that point from Edmonton easterly, so as to facilitate bridge construction. The sub-structure for the bridge at Clover bar is reported complete, and the steel superstructure is ready for shipment from the Canadian Bridge Co.'s works, Walkerville, Ont., as soon as the spur line from the Canadian Northern Ry, to the river is completed. The substructure for the bridge is being constructed by John Gunn & Sons, and it is expected to have it ready for the steel superstructure early in June. Between Battle River and Edmonton, gracing is being pushed by the contractors, Folly, Welch & Stewart. There is reported considerable heavy work to be done on this portion of the contract between Battle River and Toneld, near Stratheona, particularly on the north side of Grattan Coulee, on the first twenty-five miles north of the river. On the line between Winnipeg and Edmonton, C. M. Hays, President, recently stated that about 200 new townsites would be brought into existence during the year, either along the track, or on the 10-mile stretch on either side, which was rapidly filling up with settlers. mittee of the company's officials has completed the task of naming the townsites along the line. There are 114 and the names selected

metude those of directors, officers and officials of the company. The divisional points, with their distances from Wipnipeg are: Rivers, 142 miles: Melville, 277 miles: Waterous, 107 miles: Biggar, 526 miles: Wainwright, 600 miles. R. W. Jones, Divisional Engineer on Construction, has transferred his head-quarters from Saskatoon to Edmonton.

The contract let to the Foley firm for the construction of 116 miles westerly from Edmonton to Wolf Creek, covers the remainder of the Prairie section of the line. It is expected that this portion will be well in hand by July, and it is hoped to have the work completed in the fall. Sub-contracts have been let for over half of the mileage, and the contractors' outfits began to go out from Edmonton early in April. The country through which the route passes is rolling prairie, and commencing at about Lake Wasamun, a gradient of 0.4% will have to be constructed in order to cross the mountains with this uniform gradient. This, the constructed in order to cross the mountains with this uniform gradient. This, the constructors state, will necessitate considerable extra work. There is also considerable muskeg west of Edmonton, but the work of constructing the line across them is not difficult, although tedious. F. W. Morse, Vice-President, stated in Montreal, April 2, that invitations had been sent out for tenders for a mather stretch of 170 miles west of Wolf Creek, which would carry the line about 50 miles west of the Vellowhead Pass. This stretch would be divided into sections of 40, 60 and 79 miles, respectively, in order, to meilitate construction. It is expected that contracts will be awarded early in June, so that work can be pushed alread during the present construction season.

Reports from the Pacific coast state that the survey parties from Kitsalas Canyon and Hazleton on the Skeena River, B.C., have been transferred to the Copper River, and are now working towards the head of that stream. This has caused a revival of the reports that the Hazleton route, previously surveyed, is to be abandoned in favor of the Copper River route, which it is said will shorten the distance to the coast by from 80 to 90 miles. The route suggested is along the Copper River valley across the watershed, and thence along the Telkwa River valley.

J. W. Stewart, of Foley, Welch and Stewart, who have the contract for grading the 60-mile branch line from tidewater at Kitamaat to the junction with the main line at Kitsalas Canyon, and for the 100 miles of the main time from Prince Rupert to Kitsalis Canyon, passed through Vancouver, B.C., April 4, for Prince Rupert, to superintend the starting of operations. He said these two contracts would aggregate approximately \$10,000,000, and between 5,000 and 6,000 men would be employed for about a year and a half. A good deal of the work will be sub-let. The heaviest work on the entire line is to be found in the 100-mile section easterly from Prince Rupert. Ten miles after leaving Prince Rupert the line strikes the Skeena River, following the northern bank of the river until the Kitamaat branch is reached. The grade will have to be blasted out of the solid rock for the entire distance, but there will be only one tunnel, and that only 300 ft. The work on the Kitamaai branch will not be so heavy as on the main line, but most of it will be of the heaviest description, as several tunnels will have to be driven through solid sock. The contractors plant began to arrive in Vancouver, from Kenora, Ont., April 9, to be shipped north. Mr. Stewart said it would take 500 cars to ship the company's plant and equipment, including 600 horses to the contract, the cost of transportation being estimated at \$200,000.

The grading upon the branch which connects the Eastern Division at Lake Superior junction with the head of navigation at Fort William, Ont., has been practically completed. Track has already been laid for 125

miles from Fort William, and it is expected that the remaining mileage will be laid during the summer.

Replying to a question in the House of Commons recently, the Minister of the Interior said the G.T. Pacific Ry. Co. Ind acquired a tract of land along the north part of the Mission Reserve at Fort William, Ont., having a total area of 1,600 acres, for terminal purposes. The price paid was: 150 acres at \$320: 250 acres at \$160: 300 acres at \$80; 700 acres at \$40: and 200 acres at \$20: the purchase price being paid in cash. The total valuation of the land and improvements was \$244,574. The land was granted to the company Jan. 27, 1906. These areas were not surrendered by the Indians, but were acquired under the provisions of sec. 46 of the Indian Act, chap. 81, Revised Statutes of Canada.

An extension of time has been granted by the House of Commons Railway Committee, at the current session of the Dominion Parliament, for the construction of the various branch lines which the G.T. Pacific Branch Lines Ry. Co. has been authorized to build. In the discussion on the bill, W. H. Biggar, K.C., General Solicitor, G.T.R., stated that contracts would probably be let during the summer for the branch lines authorized to be constructed to Calgary, Alta., and Bartleford, Sask.; the branch connecting Regina and Yorkton, Sask., and the Brandon-Regina line. The preliminary surveys had been made for the branch southerly from Calgary to the International boundary and from Regina southeasterly to the International boundary at North Portul. (April. pg. 261.)

he tabular statement appearing in the Railways, referred to in our last issue, Railways, referred to in our last issue, as the total length of the Eastern Divi-from Moneton, N.B., to the west bank he Red River, at Winnipeg, to be 1,804.66 ... The sections not under contract are at as: Mileage 656.07 to 877.75, near as: Mileage 656.07 to 877.75, near runontachene, to near Harricanaw River, 168 miles; mileage 1,127.75 to 1,171.85, hundred miles west of junction with miskanning and Northern Ontario Ry, nest end of district D, 44.10 miles; mile-1,409.35 to 1,429.76, from 1915 miles tof Mud River to west end of district E, the site of the mileage 1,429.76 for 1,577.80. 11 miles; mileage 1,429.76, to 1,557.80, on westward district E to Lake Superior action, 128.04 miles. The estimated cost these sections is \$19,030,173.

A report from Montreal May 4 says as a ult of an interview between the Premier Canada, the Premier of Quebec and C. Hays, President G.T.P.R., on the premier day, it is expected that the portion of the Transcontinental Railway to run through Province of Quebec would take a more utherly route than that on which conruction is now in progress. Officials of the G.T.P. Ry, at Montreal refused to disuss the matter, but reports from Quebec al Ottawa state there is nothing in the report, the dispatch from Ottawa stating hat no change of plans or location of the me is under consideration.

A press report May 8 said: "It is estimated that the building of the N.T.R. through New franswick will involve a total expenditure of close on \$15,000,000 between now and litt in that Province." On April 13 the Minister of Railways presented a tabular trement in the House of Commons showthe mileage under contract, with the simated cost of each section. This shows the total mileage from Moneton to the New Brunswick-Quebec boundary to be 256.68 miles, and the estimate upon which the outracts were let amounts to less than \$7,000,000, distributed as follows:

, JAROARIO, GISCHERICA AS	TORKO W.C.	
bucton to Chipman hipman casterly, hipman westerly, ateredonial crossing west, filiatge 164 to Grand Falls, and Falls to boundary.	Miles, 50.00 \$ 8.55 39.05 66.40 31.80 60.88	Estimate, 989,895,90 289,190.62 967,434,95 1,898,124,21 1,646,253,65 1,385,941,09

256.68 \$6,976,840,42 A sub-contract is reported to have been A sun-contract is reported to have seen to have the bridgework on the section from the bridgework of the bridgework of the section from the bridgework of th he general contractor for which is the Wil-rd Kitchen Co., Grand Falls, N.B. Subntracts for grading have been let as fol-ws: Jas. Kelly, four miles: Cook Kitchen, ar miles: Wesley Kitchen, four miles: — hillips, P.E.I., one mile; P. Pagano, Monrent, three miles.

Sub-contracts are reported let to W. C. numbers, Harriston, Ont., and to —. hambers, Harriston, Ont., and to -. h Quigge, Kenora, Ont., for sections on

line north of Lake Nepigon.

The Dominion Government has decided meet the request of the New Brunswick overmment that the Commissioners of the Transcontinental Railway take over the expense of profecting from fire the forts of the Province along the route of the

Owing to the high water in the St. Maurice iver, about two miles of the line under instruction near La Tuque, Que, is suberged, and it is feared that several miles the line will be washed out.

The location of the Transcontinental Ry., as the engineer of the Ontario Departthe engineer of the Ortano Department of Public Works in his annual report or 1907, has been completed across the Province, a distance of 758.47 miles, under the direction of the Commissioners of the

Transcontinental Ry. From the Manituba boundary eastward 157.80 miles are under construction. The total approximate number of miles graded from the Manitoba-Ontario boundary to English River, in detached sections, is 84 miles. From the Quebec boundary westward 71.75 were number construction. under construction.

GRAND TRUNK PACIFIC RY.

The tabular statement appearing in the official report of the speech of the Minister of Railways, referred to in our last issue, of Railways, referred to in our last issue, gives the location of the several contracts on the main line of the G.T. Pacific Ry., between Winnipeg, Man., and Prince Rupert, B.C., with the names of the contractors and the dates when the contracts were entered into, and when the work should be finished. The work to be done under these contracts included grading the roadbed and building small culverts and bridges. building small culverts and bridges.

for the two companies, it being understood that the Canadian Northern Ry, could join in. The C.P.R. would consider the giving of running rights over the C.P.R. through Fort William to a diamond crossing with the Canadian Northern Ry, at Port Arthur, on the wheelage basis. The Chief Commissioner told the companies to reach an agreement on this basis, otherwise the Board would no learn or the would make an order.

When the G.T. Pacific Ry, bill for an extension of time for the construction of the branch lines, which it is authorized to construct as the G.T. Pacific Branch Lines Co., came before the House of Commons in committee of the whole, May 8, T. H. Lennox moved the insertion of an amendment with respect to taking over of the lines by the Government. The amendment provides that if the price of the branches cannot be agreed upon it shall be deter-

Date of Contract	Name of Contractor	Location of Work	Date set for Completion
June 22, 1907 Aug. 28, 1905	McDonaki & McMillan, Winnipeg		Nov. 1, 1907. Completed.
	or the state of th	W. line Sec. 6, Tp. 27, R. 13 W. 2nd Mer., to W. line Sec. 24, Tp. 36, R. C. W. 3rd Mer., 140 miles.	Completed
els. 20, 1906	lord,	W. line Sec. 24 Tp. 36, R. 6 W. 3rd Mer., to a point near Edmonton, Alta., 346 miles.	
nn. 4, 1908		East line of Sec. 15, Tp. 53, R. 24 W. 4th Mer., to east bank of Wolf Creek, 179 miles.	Nov. 30, 1908.
Mar, 19, 1908	Foley, Weich & Stewart, Kenoru.	Prince Rupert to Copper River, 100 miles.	Aug. 31, 1909

The Department, said Hon. G. P. Graham, has been advised that contracts have been awarded for the following works, but no details were given: Concrete piers, pedestals and abutments of steel bridges; steel superstructures of large bridges; station buildings, engine houses and machine shops; water services; steel rails and fastenings, frogs, diamond crossings, etc.; ties, fence posts, telegraph posts.

In making a statement as to the position of construction April 30, Collingwood Schrieber, Consulting Engineer to the Department of Railways, said with the exception of about 500 miles of the mountain section, the whole of the line being constructed by the G.T. Pacific Ry, was under contract. The whole of the prairie section, from Winnipeg to the foot of the Rocky Mountains, about 100, miles west of Edmonton, was expected to be open for traffic in the fall. Rails were laid from within 30 miles of Winnipeg to Battle River, and from Battle River west to Edmonton much of the grad-ing was completed. The delay in the work of completing the tracklaying into Edmonton was due to the loss of time in the con-struction of the bridge over the Battle River.

Tenders for the supply of 600,000 ties for delivery at points west of Edmonton are and arrangements are being reported let, made to secure a sufficient supply of ties to carry the line as far as the Yellowhead Pass.
The British Columbia Government has

granted registration to the G.T. Pacific Ry. townsite as Prince Rupert, despite the fact that the name had been appropriated by a iand speculator. Sub-contracts are reported to have been let by Foley, Welch and Stewart for grading on the line casterly from Prince Rupert to Ross and Caulson, Kenora, Ont.; J. E. Bostrom, H. and A. McChire, and the Rurd Contracting Co. of Bellingham, Wash, and F. Antonelli. C.T. Pacinic Decision

PACIFIC BRANCH LINES. At a ses sion of the Board of Railway Commissioners in Ottnwa, May 5, D. McNicoll, Vice-President C.P.R., objected to the G.T. Pacific Ry, plans for lines in Fort William, Ont., on the ground that they would seriously confirm with the constitution, by the interfere with the construction by the C.P.R. of enlarged terminals. The C.P.R. favored the construction of joint terminals

mined by the Board of Railway Commissioners, either side lawing permission to appeal to the Supreme Court, but the Gov-ernment before it can exercise its option to purchase must have a resolution of Par-hament authorizing it to do so. The debate was adjourned.

The Engineer of the Ontario Department of Public Works in his report for 1907, says the G.T. Pacific Ry, has located a branch line from North Bay to a junction with the main line of the Eastern Division of the G.T.P. Ry. (National Transcontinental Ry.), as distance of \$25 miles. The construction of a line known as the Lake Superior Branch, from Fort William, Ont., to a junction with the main line of the Eastern Division, at a point known as Superior function, a dis-tance of 202.8 miles, which has been finally located has been in progress for the last two years. About 70% of the grading and bridging is completed, and 115 miles of track laid from Fort William westerly. It is expected that the entire branch will be completed during the current season. The company has located an extension of this branch through Fort William to Port Arthur and thence easterly to Bare Point,

An item has been going the rounds of

An item has been going the rounds of the daily press to the effect that a shipment of about 2,500 tons of steel rails had been delivered at Vancouver, B.C., by the Holt Blue Funnel Line, for the G.T. Pacific Ry: that 4this shipment, the place of origin of which was given as Pittsburg, Pa., was sent to British Columbia, via New York, thence by the Atlantic route, through the Suez canal, to Kobe, Japan, and from there across the Pacific. We are officially advised that the item is entirely incorrect, and that no rails have been bought for the

and that no trust have been bought for the Pacific coast end-of the line.

GRAND TRUNK PACIFIC TOWNSITES—G. N. Riley, Land Commissioner G.T.P. Ry., in an interview at Winnipeg, May 4, said the company had then 80 townsites on the worker including five discount points. market, including five divisional points. Only one townsite had been surveyed west of Edmonton, viz., adjoining the Camadian Northern Ry, at Stoney Plains. In laying out these future towns and eities a great deal of care has been taken to have them regular. With three exceptions, all the

The Dominion Parliament bas, at its current session, voted \$3,750,000 on account of surveys and construction of the National Transcontinental Railway, in addition to the amounts already reported

Replying to questions in the House of Commons, May 27, the Manister of Railways stated that upon the Eastern Division steel rails liad been purchased as follows:

District A. For delivery at Moneton, N.B., 7,791.4 tons at \$35.85 per ton; for delivery at Edmundstop, N.R., 8,548.4 tons at \$37,60 per ton, from the Dominion Iron and Steel Co., Sydney, N.S.

District B. For delivery at Quelice, 23, 000 tons at \$34 per ton; and \$471.7 tons at \$35 per ton; for delivery at Levis, 19,485.7 tons at \$35 per ton, from the Dominion from and Steel Co., Sydney, N.S.

District D. For delivery at the innerion with the Temiskaming and Northern Outario Ry., 24,374 tons at \$40 per ton; for delivery at Port Arthur on Fort William, 32,000 tons at \$34 per ton from the Algema Steek Co., Sault Ste. Marie, Out., For delivery at Port Arthur or bort William, 10,000 trans at \$34,50 per ton, from the Dominion from and Steek Co., Sedney, N.S.

The total length of the Rastern Division was 1.803.55 miles, which would require 226,781.18 tous of rails. The estimated weight of rails required for tracks in yards and sidings was 11,100 fons, making a total of 267,840 tons. The estimated cost of 863, 427 per taile, as given as a recent sessional paper, included the cost of terminal yards, station bouses, engine houses, turniables water ranks, and all buildings and structures necessary or usual for the effective operation of the road, but did pot include terminals at Winnipeg, shaps past of Winnipeg, or terminals at Quobec or connection therewith, plans for which have not yet been made.

The Commission has appointed 19 fire wordens to look after the breests along the route of the radium in New Branswick, and the timekeepers at the different construction camps have been appointed deputy wordens.

J424 1908 and Steel Co., Sydney, N.S.

DISTRICT D.—For delivery at the junction with the Temiskaming and Northern Ontario Ry., 21,371 tons at \$40 per ton; for delivery at Port Arthur or Fort William, 32,000 tons at \$34 per ton from the Algoma Steel Co., Sault Ste. Marie, Ont.—For delivery at Port Arthur or Fort William, 10,000 tons at \$34,50 per ton, from the Dominion Iron and Steel Co., Sydney, N.S.

The total length of the Eastern Division was 1,803.55 miles, which would require 226,731.48 tons of rails. The estimated weight of rails required for tracks in yards and sidings was 41,100 tons, making a total of 267,840 tons. The estimated cost of 863,427 per mile, as given in a recent sessional paper, included the cost of terminal yards, station houses, engine houses, turntables, water tanks, and all buildings and structures necessary or usual for the effective operation of the road, but did not include terminals at Winnipeg, shops east of Winnipeg, or terminals at Quebec or connection therewith, plans for which have not yet been made.

The Commission has appointed 19 fire wardens to look after the forests along the route of the railway in New Brunswick, and the timekeepers at the different construction camps have been appointed deputy wardens. Good progress is reported to have been made with grading in the province, and a member of the engineering staff at Moneton is quoted as saying that 10 miles of the line at that end will be completed by the end of the summer.

A plan showing the right-of-way of the line from mileage 150 to 160, from the north abutment of the Quebec Bridge easterly through the County of Kamouraska has been filed. Replying to questions in the House of Commons, the Minister of Railways recently said that the reports that part of the track near La Tuque, Que., were under water, and that as a result the route would have to be changed, were unfounded. A temporary siding at one point was under water, but no damage had been done to the road.

Another explosion of dynamite on the line north of Kenora, resulting in the loss of nine lives, is being investigated by the Chief Engineer. A previous investigation showed that the men became negligent in the handling of explosives, and instructions were issued as to the precautions to be observed.

Replying to a question in the House of Commons, the Minister of Railways recently said the medical service and attendance on July 1908 en employed on construction were furnished to the contractors, and this service was carted on under the supervision of the Inspectors of the Department of Agriculture. The nly medical officers employed by the Commissioners of the Transcontinental Ry. were:

B. Piegay, district C, salary \$80 a month;
Handfield, district E, salary \$75 a month;
R. Johnson, district D, salary \$80 a month;
W. J. Taugher, district D, salary

Grand Trunk Pacific Ry. The Dominin Parliament, at its current session, has oted \$1,750 as remuneration to A. Brunet, overnment director, and \$24,500 for the in-

-pection of the G.T. Pacific Ry.

The G.T. Pacific Ry., according to the redy of the Minister of Railways to questions in the House of Commons, May 27, has purimsed 50,000 tons of steel rails from the Alonia Steel Co., Sault Ste. Marie, Ont., and 40,000 tons from the United States. For the Lake Superior branch from Fort William of Lake Superior Jet., the company had used 25,000 tons of steel rails lifted from the state, which were replaced by 26,000 tons of new rails purchased from the Dominion from and Steel Co.

The eastern limit of the Mountain section was fixed* Nov. 21, 1907, by Collingwood schrieber, Consulting Engineer of the Department, and B/B. Kelliher, Chief Engineer of the G.T. Pacific, as the east bank of Wolfe reck. This point is 129 miles east of the unmit of the Yellowhead Pass, and 119 miles west of Edmonton. Wolfe Creek has an election of 665 ft. above Edmonton, while the unmit of Yellowhead Pass is 840 ft. higher

than Wolfe Creek.

C. Schrieber, Consulting Engineer to the Department of Railways, left Montreal, June 15 to inspect the work in progress on the line. Track is reported to have been laid westward confidence in the Prairie for 560 miles, and it was expected that track would be laid on the 1 miles between Portage la Prairie and Winnipeg by the end of June. Tracklaying is using pushed towards Battle River, and in rider to push on with the work rails and other racklaying material are being concentrated at Edmonton, so that tracklaying may also so gone on with from that point easterly.

The G.T.P.R. is establishing a base hosstal at Prince Rupert, B.C., in connection with the construction from the Pacific coast. The Minister of Railways admitted in the House of Commons recently that all supplies surchased in Eastern Canada were being aken over the G.T.R. via Chicago, and shiped via Scattle, Wash. Supplies were being surchased by the contractors in the United states and shipped via Scattle, and supplies cere also being purchased in Vancouver, B.C., jut reports from that city state the quantity but small compared with what are purlinsed in the U.S.

GRAND TRUNK PACIFIC BRANCH LINES Co.

The bill granting an extension of time for
the construction of a number of branch lines
as been passed at the current session of the
terminon Parliament. The amendment pro-

in the House of Commons, May 27, has purhased 50,000 tons of steel rails from the Alcoma Steel Co., Sault Ste. Marie, Ont., and 0,000 tons from the United States. For the Lake Superior branch from Fort William ... Lake Superior Jct., the company had used 16,000 tons of steel rails lifted from the T.R., which were replaced by 26,000 tons of new rails purchased from the Dominion

from and Steel Co.

The eastern limit of the Mountain section was fixed Nov. 21, 1907, by Collingwood schrieber, Consulting Engineer of the Department, and B/ B. Kelliher, Chief Engineer of the G.T. Pacific, as the east bank of Wolfe Creek. This point is 129 miles east of the summit of the Yellowhead Pass, and 119 miles west of Edmonton. Wolfe Creek has an eleaction of 665 ft. above Edmonton, while the mmmit of Yellowhead Pass is 840 ft. higher

Hun Wolfe Creek.

C. Schrieber, Consulting Engineer to the Department of Railways, left Montreal, June 15, to inspect the work in progress on the line. Track is reported to have been laid westward rom Portage la Prairie for 560 miles, and it was expected that track would be laid on the of miles between Portage la Prairie and Winnipeg by the end of June. Tracklaving is seing pushed towards Battle River, and in rder to push on with the work rails and other mcklaving material are being concentrated a Edmonton, so that tracklaying may also be gone on with from that point easterly.

The G.T.P.R. is establishing a base hosstal at Prince Rupert, B.C., in connection with the construction from the Pacific coast. the Minister of Railways admitted in the Touse of Commons recently that all supplies urchased in Eastern Canada were being aken over the G.T.R. via Chicago, and shiped via Seattle, Wash. Supplies were being urchased by the contractors in the United states and shipped via Seattle, and supplies vere also being purchased in Vancouver, B.C., but reports from that city state the quantity but soull compared with what are pur-

hased in the U.S.

GRAND TRUNK PACIFIC BRANCH LINES CO. The hill granting an extension of time for be construction of a number of branch lines is been passed at the current session of the bominion Parliament. The amendment proiding that the Government take over the much lines of the Eastern Division, N.T. 'v., which the G.T. Pacific Rv. did not wish retain at the end of the 50 years' lease, was thdrawn. (June, pg. 415.)

R L July ta in 1908 lin

In

acc

C.I

ed

ear

loa

to

it

1116

Ba

ma

Wa

pr

IIIC

No

m

155

an

CO

of

tic

WI

Co

CO

for

at

re

W

Six

by

ba

SIC

do

WI

VI

Sil

ea

als

Ti

111

SL

Fr

fin

th

CU

sti

ad

ba

CO

THE

The question of the cost to the Dominion the Eastern and Western Divisions of the tional Transcontinental Ry., under con-metion from Moneton, N.B., to Winnipeg, lan, by the Transcontinental Ry. Commison, and from Winnipeg to Prince Rupert by of G.T. Pacific Ry., has been made the subset of considerable discussion. On July 6, we Minister of Railways stated that he excted the railway would be fully completed v Dec. 1, 1911. The cost he now estimated 1 S63,437 per mile, not including allowance interest for the 1803,56 miles between longton and Winnipeg. The cost of the e-minals at Winnipeg is placed at \$2,000,000, ad of the terminals at Moncion at \$97,000. In regard to the joint terminals at Winnipeg, the agreement with the Canadian Northern ky, the value of the lands on which the staion and terminals are to be located is fixed +82,025,000. Upon this valuation the Government and the C-T. Pacific Ry, is to pay, in qual shares, one-half of 4% a year. The mount of the valuation includes grading, evelling and filling, but does not include the buildings and the tracks. The Candau Northern Ry, is to supply there, and the Covernment and the G.T. Pacific Ry, are apply in equal shares one half of 41,2%. The samed cost is set down at \$2,000,000, makand the amount payable by the Government search at \$22,500, or the total for the Winning terminals of \$48,710. As to the G.T. Pacific prairie section from Winnipeg to Wolf creek 119½ miles west of Edmonton, has been located. The estimated cost of conruction has been set down at present at 561,520,000.

Hon. R. L. Borden made a On July 7, The estimate was based upon the supplied by the Government from to time, and those obtained from private investigation. He said the 1803.55 miles from about to Winnipeg at \$63,427 a mile, not including the Quebec Bridge, would allount to \$114,393,765. Allowing five years to the period of construction, there would be a said to the period of construction, there would be a said to the period of construction, there would be a said to the period of the period of construction at the period of the peri in average of 234 years simple interest at u year to be met, or a total of \$10,009,completion, \$124,403,219. To this must added seven years' interest at 3%, after inpletion, during which the C.T. Pacific is pay no rent, \$26,124,676; and 3% for three ary additional, during which no rent is coletible unless the earnings are sufficient, 11, 196,290, making a total of \$161,724,185. The cost of the Quebec Bridge to Mar. 1, 1907, 55,122,238, and the estimated cost of undetion, \$9,000,000, making \$14,422,238; the the estimated cost to the Government the terminals at Winnipeg, Onebec and the terminals at Winnipeg, Onebec and teton, and the shops at points east of impeg, was \$5,470,000. Then there was interest which the Government had to on the Mountain section of the Western sion, without recourse, \$9,889,400 (which the corrected to \$11,304,300 on July 8), gether cash liabilities of \$191,305,823 (or us cted, \$192,920,723). In addition to that ont the Government had contracted to various obligations on the guarantee of Liability on guarantee of ils as follows: issue on Mountain section, 75% on 6 816 miles, estimated at \$61,520,000, 60,140,000; liability of bond issue on section, 916 miles at \$13,000 a mile. os.060. This made up a cash expending liability of \$191,305,823; and liability bond guarantees of \$58,048,000, or a of \$249,353,823, and as corrected July total of \$250,968,723.

July 12, the Minister of Railways made tenent in reply to Mr. Borden, in which cepted a number of the figures given, conditated others, amounting to some \$7,00000. He accepted the figure of

\$114,393,765 as the cost of the Eastern Division, \$10,000,454 interest during construction, \$26,124,676 seven years' interest after completion, and placed the cost of terminals at \$3,500,000. It was expected that the line would pay from the outset, consequently the interest for three years' rental which could be collected only if couned, was cut out; as also was the cost of the Quebec Bridge, which was not part of the undertaking. In regard to the Eastern Division, all the burden that would fall on the country was the \$25,124,676, the interest for the seven years after completion, during which no rental was payable by the G.T. Pacific Ry. As regards the Mountain section, he did not believe that Camada would even be called upon to pay one cent of the unarantee.

These figures were given in the course of the discussion on the voting of \$30,000,000 for surveys and construction on the Eustern Division.

Track was laid in Moneton, N.B., to within a few hundred yards of the Intercelonial Rystation, June 24, and will run parallel to that line into the station. A steam shovel has been put on the track, and grading for the permanent track is going on. The starting of work at this point was evidently a surprise to the citizens, as although several surveys had been made for the line in the city limits, no announcement had been made as to the route to be followed.

Tenders are being called for and will be received up to Aug. 20, for construction of the following sections:

District C.—From Weymontachene, Que, 196.38 miles west of the north abutment of the Quebec Bridge (being the boundary between Districts C and D), westerly for about 107 miles; to be completed by Dec. 31, 1910.

District C.—From 107 miles west of Weymontachene, Que, westerly to the end of the G.T. Pacific Ry. Co.'s contract, about 114.97 miles; to be completed by Dec. 31, 1910.

Districts D and E.—From the western end of Fanquier Bros. Abitibi contract in Outario, westerly for about 104.24 miles; to be completed by Dec. 31, 1910.

District E.—From about 60 miles west of

District E.—From about 60 miles west of the easterly boundary of District E, in Ontario, easterly to the end of Fauquier Bros.' contract north of Lake Nipigon, Om., about 100 miles; to be completed by Dec. 31, 1910. Districts E and F.—From the western end of Fauquier Bros.' contract north of Lake

Districts E and F.—From the western end of Fauquier Bros, contract north of Lake Nipigon, Ont., westerly to Dog Lake, Ont., about 126 miles, to be completed by Sept. 1, 1010.

District F.—From Dog Lake, Ont., to mile 2.6 west of Peninsula Crossing, by alternative routes, being about 23.76 miles by the north-erly, and 24.13 miles by the southerly route; the selection of the route to be at the option of the Commissioners; to be completed by Sept. 1, 1910.

GRAND TRUNK PACIFIC RAILWAY

The bridge which the C.T. Pacific Ry, is constructing across the Kaministikwin River at Fort William, Ont., on its Lake Superior branch, will consist of one 258 tt* through swing, and one 125 ft/through viveted truss spons, having an extreme width of 48 ft. The floor of the bridge is arranged to carry one railway track, two readways and two side-walks. Provision is made for an electric railway track on the roadway. The substructure consists of two abunnems, built on pile foundations driven to the solid rock, and two piers built of concrete from the rock line. pier carrying the swing span is toward the northern bank of the river, leaving a navigable channel of 100 ft, with a maximum depth of 23 ft., and a minimum depth of 15 ft., for a few feet at the southern pier. On the north side of the centre pier there is a depth of over 20 ft for about 40 ft, from the pier, The bed of the rail will be 33 ft, above water level, The bridge is being constructed in accordance

with the Dominion Covernment specifications for the class of bridge designed to carry heavy traffic

Tracklaying is going on continuously on the line west from Suskatoon, Susk., and in the week ending June 29, 30 miles of steel were laid. In the yards at Suskatoon, large numbers of cars of material, and steel rails and ties for many miles of track are stored, and several carloads of steel for the bridge over the Battle River are waiting to be sent forward. This point is 630 miles west of Winnipeg, and 160 miles east of Edmonton, Atra. F. W. Morse, Vice-President, returned to Montreal July 5, after having gone over the line as far as track had been laid. It is expected that a considerable portion of the mileage to the Battle River will be opened Sept. I, for the hauling of grain to Winnipeg. Tracklaying on the line between Portage

Inckluying on the line between Portage la Prairie and Winnipeg was completed luly 13.

Beyond Battle River, nearly the whole of the grading into Edmouron has been completed, and it is hoped to have the track laid by the winter. On this section of the line is the big bridge across the Saskatchewan River at Clover Bar. The bridge has a total length of 1,500 ft., and is carried on four concrete piers in the river, two abunuous, and 30 pedestals on the banks. The river piers have a total height of 124 ft., the distance from footing to lower seat being 92 ft.; from footing to upper seat, 98 ft.; and from footing course to bottom of foundation, 26 ft. The measurement at lower seat is 11 by 26 ft.; and at foundation, 41 by 87 ft. 6 in.; while the batter is half an inch to the foot. The total amount of the concrete contained in each pier is 4,171 cubic yards. The seed for the superstructure is in course of delivery.

West of Edmonton the grading on the 129 miles westerly to Wolf Creek is in a forward condition and it is expected to have it completed and ready for the rails by the fall.

In connection with the construction of the line through British Columbia, the Provincial Government has promised to give substantial assistance towards opening up a road through the Revelstoke district for taking in supplies and men for the construction of the 79 mile section through the Yellow Head Pass to Tete Jame Cache, and 150 miles west, provided the contractors adopted the Revelstoke route and undertook to purchase supplies in the province. During his visit to the west, F. W. Morse, Vice-President, stated that an amouncement would shortly be made with respect to the letting of contracts for the 100 miles from Wolf Creek to the Yellow Head Pass, and for 70 miles west of the Pass, the tenders for which had been received.

Considerable progress is reported to have been made on the line in the mountains near Prince Rupert. Foley, Welch and Stewart, the contractors, have let a number of sub-contracts, the firms engaged being: Neil Keith, J. E. Bostrom, McDonald and MacAllister, M. Shady, A. Stewart, Harstone and Stoiner, McDonald and Perry, Dudley Pros., A. Ross, N. McLeod, D. Harrigan, F. Peterson, Washbuk & Co., J. Albi, A. Filigno, D. A. Rankin, D. Stewart, and the Prince Rupert Construction Co. These sub-contracts practically cover the mileage for which the contract has been let, with the exception of about 15 miles north of Graveyard Point, which the general contractors are doing themselves (July, pp. 467.)

The Nova Scotia Government has approved of hy-law D of the Maritime Coal, Rv and Power Co., fixing tariff for freight and ecal on its line. The Government however, ordered the reduction of the rate on coal from 40c per gross to n to 30c, per gross to n between Maccan and Jubilee, Stratherin River, Hebert and Mimdle, and to 32c, per ton from Maccan to Prospect and Joggins.

Rapid progress is reported to have been with the construction of the section the line between Moneton and Chipman, H. The grading is well advanced, a sur line has been laid to a ballast pit near stishury, and temporary lines have been but to permit of the working of steam weeks and construction trains. The coneners' plant on the section includes five stam shovels, 15 narrow gauge locomo-tivis, 120 five-yard cars, 20 convertible us, 80,000 lbs. capacity; 10 flat cars, 80,end his capacity and feur concrete mixing plants. It is expected that the track will ready for laying the permanent rails early

N. Parent, Chairman of the Comsion in charge of the construction of

sion in charge of the construction of crailway, was at La Tuque, Que, Aug. selecting the site for the yards and divioual buildings at that point.

H. Reynolds, President of the Reynolds Construction Co., which has the consert for the construction of the first 150 des of the line east of the junction with Temiskaming and Northern Ontario with the construction of the conserved in clearing and grading, and that expected to get the track laid by the another to do the ballasting and to clean up in to do the ballasting and to clean upline. There was not a great deal of
old work on the 150 miles, the amount of
k work being small. A number of
liges had to be built, the substructures
which would be concrete. The bridge
is the Abitibi River is said to be about
19 it. long, and at a height of about 200
bove the river. The point of junction
the Temiskaming and Northern OnRy is about eight miles west of the
sing of the Abitibi River.
The Commissioners are asking for tenders

be Commissioners are asking for tenders the supply of 44,447 gross tons of 80-lb. mils, for delivery at various points w mileage under contract.

GRAND TRUNK PACIFIC RY.

luly 30 a special train left Winnipeg, carrying F W. Morse, Vice-President teneral Manager, and other officials, trip of inspection over the line. The went to the end of the steel at Battle a point 675 miles west of Winnipeg. Morse completed arrangements for the ng of a regular train service over por-of the line, which went into operation to a point about 50 miles west of

bridge over the Battle River is well vd, and steel rails and other ma-re being collected there so that trackmay be resumed as soon as the bridge by At Edmonton track has been the bridge across the Saskatchewan at Clover Bar, and as soon as the The first of the bridge is completed to the ring will be resumed on the roadbed

in the direction of Battle River. tance from the Battle River to the Saskatch-ewan River at Clover Bar is 112 miles. It is expected that the line will be completed through to Edmonton early in Nov. On the section from Edmonton westerly to Wolfe River good progress is being made with the grading, and one stretch of about 60 miles is expected to be completed by Christmas.

Christmas.

From Prince Rupert, B.C., it is reported that the right-of-way has been cleared easterly for the first 50 miles, and that the clearing on the second 50 miles is well under way. It is announced that the townsite of Prince Rupert will be placed on the market shortly. This announcement is made concurrently with the announcement that F. W. Morse has effected a settlement of some differences with the British Columbia Government over the waterfront Columbia Government over the waterfront sites. The water frontage is in all 28,500 ft. The Government by the original agreements got 8,500 ft. of this. By the agree-ment now consummated this is divided into five strips of unequal length, ranging from 1,000 ft. to 3,000 ft. and located at points which, in the opinion of the Government engineers, will prove of strategic importance for the development of the north-ern city. The railway obtains all the land required for terminal purposes, but ceded the Government 23 acres in other parts of the townsite for the surplusage of land they receive, en bloc.

PACIFIC NORTHERN AND OMINECA RY.

The railway subsidies act passed last session of the Dominion Parliament provided for the aiding upon the usual terms and conditions, of a line of railway from Kittimat to the Telkwa River, B.C., a distance not exceeding 110 miles. (Aug., pg. 557.)

G.T. PACIFIC BRANCH LINES.

The Dominion Parliament last session voted a subsidy at the rate of \$3,200 a mile, with the usual provisions as to an increase to \$6,400 a mile, towards the construction of a railway from Montreal, northerly to a junction with the National Transcontinental Ry. (Eastern Division G.T. Pacific Ry.), not exceeding a distance of 200 miles. It transpired in the course of the discussion that the application for the subsidy stands in the name of the Premier, and that it was being asked for as a result of a very large deputation which waited on the Govlarge deputation which waited on the Government from the city of Montreal. The Minister of Railways said unless it was the G.T. Branch Lines Co., he did not know what company would be in a position to construct this line, the policy of the Government was to give the bonus to the first company that will show its readiness and ability to construct the railway.

A subsidy on the same terms was also

A subsidy on the same terms was also voted for the construction of the line, now nearly completed, and known as the Lake Superior Branch, extending, from Fort William and Port Arthur, Ont., to a junc-tion with the National Transcontinental tion with the National Transcontinental Ry. (Eastern Division G.T. Pacific Ry.), a total not exceeding 220 miles.

During June, 28 men were killed and 32 injured in the course of their employment in railway work in Canada. Of the fatalities 7 were due to being run over, 10 to explosions of dynamite, 2 each to derailments, to being struck by passing objects, and to being caught between cars, each to a fall, to suffocation by gasolene, furnes, to being struck by train, and 2 to drowning. Of the non-fatal accidents, 8 were due to being run over, 7 to derailments, 6 to falls, 4 each to being caught between cars and to falling materials, I each to fly ing material, to an explosion of dynamite, and to machinery.

THE THINK --

Antional Transcontinental Rallway

the mount towards Moneton. It is expected that 27 miles of main line track when he laid on this 50-mile contract this On the eastern end of their section general locomotives, 12 narrow gauge locoone standard gauge locomotive, 10 narrow gauge locomotives, six Rodger ballast cars, of the line five miles of grading has been anapleted. Altogether there are about 700 at work, and the contractors expect in take the whole of the grading completed the N.T. Ry, to get to the ballast pit. The commany started to lay track on the main veryline cars and 10 flat cars, and at the and five flat cars. At the Chipman end miles to a ballast pit. Track has been laid on this branch, which tuns from the main of the Intercolonial Ry, and crosses towards Canaan River, and started the contractors have at work two standard Chaman and there are three steam shovels, and the sections of the line in New Brutswick. The Corbet-Floesch Co., which in the line from Moneton to within Moneton end and also a branch of six at Catamount, 11 miles west of Moncconstruction is being proceeded with has the contract under the G.T. Pacific Ry. the end of Aug. had 18 miles graded at miles of Chipman, a distance of 50 miles.

thing 1909.

The G.T. Pacific Ry., which secured the contract for the construction of 150 miles of the line known as the Abitibi section, is at the taking steps to cancel the sub-

yards will be \$5,000,000, of which the Na-tional Transcontinental Ry Commissioners

pay about \$1,500,000, the G.T. Pacific Ry.

A press report says that the total cost of the

construction and equipment of the shops and

Nipigon, a distance of about 100 miles. The work is to be completed by Dec. 31, 1910. The Commissioners are also asking for tenders, to be sent in by Oct. 8, for the construction of locomotive shops at Winnipeg, and for the filling required for the preparation of the site for the shops

steel work, carpenter work, sheet metal, painting, glazing and plumbing. The locomotive shop will be the first structure to be undertaken, and will be divided into three departments. The tank shop for the construction of the parts of locomotives or cars, concrete foundation, the main flooring heing machine tool and erecting shop, 615 by 174 ft. In the erecting shop there will be 26 engine pits, and these will be served by two transverse tracks, one of which will be con-The total dimensions of the building will be also of concrete, while walls will be of best quality brick. The roof will be on the "saw-tooth" design, with all skylights and ventilators of copper, planned to ensure a maximum will be equipped with one girder crane of 120 tons capacity, and one of 10 tons capacity. ft.; the boiler shop, 184 by 110 ft., and the 823 by 174 ft. The frame of the building will be of the self-supporting steel type on solid The erecting shop made of sheet iron or steel, will be 184 by 95 tinued through the boiler and tank shops. mum efficiency from rolling stock and motive the site, levelling the ground to raise it to The shops, for the construction of which tenders will be received Oct. 8, are to be located in Springfield municipality, 6 miles and level ground. The plans are so arranged as to secure the most rapid and economical handling of trains, thus obtaining the maxipower. The specifications divide the work into sections, comprising the preparation of rack level, foundation and concrete work, The site is an admirable one and is on open east of Winnipeg, and close to the C.P.R. Molson cut-off and a C.N.R. branch line. of light and ventilation.

gangs, as they are closing up the work on the sections between Buttle River and fidmonton, are moving west of the Penulina River. Only a short stretch of 15 miles in the Beaver Hills was reported Sept 15 to be unfinished. This is expected to be finished by Oct. 15.

state good progress is being made. Grading on the first 50 miles is reported to be well under way, and work is being opened out on the second 50 miles as fast as supplies can be got in. It is expected that a further section of 100 miles easterly from the summit of the Yellowhead Pass, will be let shortly. This would leave a further distance of about 400 miles to be let.

Collingwood Schreiber, Consulting Fingineer to the Department of Railways, accompanied by B. B. Kelliller, Chief Engincer G.T.P.R., was at Prince Rupert Sept. 5, and inspected the route as far as Hazleton. Some difficulties, it appears, have arisen in the way of securing the right-of-way, and the straightening of these out was one of the reasons for Mr. Schreiber's inspection. (Sept., pg. 637.)

ostruction is being proceeded with my ily on the sections of the line in New Rouswick. The Corbet-Floesch Co., which the contract under the G.T. Pacific Ry. for the line from Moncton to within uiles of Chipman, a distance of 50 miles. the end of Aug. had 18 miles graded at Moncton end and also a branch of six in to a ballast pit. Track has been law this branch, which runs from the main of the Intercolonial Ry, and crosses the VT. Ry, to get to the ballast pir. The recognity started to lay track on the main in at Catamount, 11 miles west of Monetowards Canaan River, and started east in Sept. to lay track easterly from Latinguit towards Moncton. It is experced that 27 miles of main line track would be laid on this 50-mile contract this On the eastern end of their section the contractors have at work two standard locomotives, 12 narrow gauge locomotives, five steam shovels, 20 Hart conwoulde cars and 10 flat cars, and at the Chaman end there are three steam shovels, and the three are three steam showers, one tandard gauge locomotive, 10 narrow game locomotives, six Rodger ballast cars, and twe flat cars. At the Chipman end of the line five miles of grading has been Altogether there are about 700 considered. at work, and the contractors expect during 1909.

The G.T. Pacific Ry., which secured the contract for the construction of 150 miles at he line known as the Abitibi section, is to be taking steps to cancel the substance made with the Reynolds Constitution Co. The contractors have done and deal of preliminary work, but it is they have falled to make adequate process, and it is reported that the G.T. The Co. will either secure another substance, or go ahead with the work itself.

Commissioners have awarded contract for the construction of line as follows:

Petrict C, from Weymontachene, Que, 1968 miles west of the north abutment of the Tuebec bridge, westerly for about 107 miles west of Weymontachene, Que, westerly to the end of the T.T. Pacific Ry. Co.'s contract, about 157 miles; to be completed by Dec. 31, 1966 to Macdonell and O'Brien, Montreal;

I tricts E and F, from a point at the west at end of Fauquier Bros.' contract facts of Lake Nipigon, Ont., westerly to he take about 126 miles, to be completed by it. 1, 1910; and,

west of what is known as Peninsula 15, by alternative routes, about 23.76 by the northerly route and 24.13 miles southerly route, the selection of the be at the option of the Commission-be completed by Sept. 1, 1909; to and McDougall, Ottawa.

Commissioners received tenders to

mi

The Commissioners received tenders to Sept. S. for the remaining two sections of the sern Division of the line. These are, Disputs D and E.—From the western end of the Abitibi contract of Fauquier Bros., westerly 104:24 miles. District E.—From about 30 miles west of the easterly boundary of District E easterly to the end of Fauquier Bros.' contract north of Lake

Nipigon, a distance of about 100 miles. The work is to be completed by Dec. 31, 1910. The Commissioners are also asking for tenders, to be sent in by Oct. 8, for the construction of locomotive shops at Winnipeg, and for the filling required for the preparation of the site for the shops

The shops, for the construction of which tenders will be received Oct. 8, are to be located in Springfield municipality, 6 miles east of Winnipeg, and close to the C.P.R. Molson cut-off and a C.N.R. branch line. The site is an admirable one and is on open and level ground. The plans are so arranged as to secure the most rapid and economical handling of trains, thus obtaining the maximum efficiency from rolling stock and motive power. The specifications divide the work into sections, comprising the preparation of the site, levelling the ground to raise it to track level, foundation and concrete work, steel work, carpenter work, sheet metal, painting, glazing and plumbing. The loco-motive shop will be the first structure to be undertaken, and will be divided into three departments. The tank shop for the con-struction of the parts of locomotives or cars, made of sheet iron or steel, will be 184 by 95 ft.; the boiler shop, 184 by 110 ft., and the machine tool and erecting shop, 615 by 174 ft. In the erecting shop there will be 26 engine pits, and these will be served by two transverse tracks, one of which will be con-tinued through the boiler and tank shops. The total dimensions of the building will be The frame of the building will 823 by 174 ft. be of the self-supporting steel type on solid concrete foundation, the main flooring being also of concrete, while walls will be of best quality brick. The roof will be on the "saw-tooth" design, with all skylights and ventilators of copper, planned to ensure a maximum of light and ventilation. The erecting shop will be equipped with one girder crane of 120 tons capacity, and one of 10 tons capacity. A press report says that the total cost of the construction and equipment of the shops and yards will be \$5,000,000, of which the National Transcontinental Ry Commissioners pay about \$1,500,000, the G.T. Pacific Ry. being responsible for the remainder.

GRAND TRUNK PACIFIC RY.

A regular train service was placed in operation Sept. 21 from Winnipeg to Wainwright, Sask., at the crossing of the Battle River, a distance of 666 miles. Several general officers of the company from Montreal and A. W. Smithers, Vice-President G.T.R., Loudon, Eng., were present on the occasion. The party left Montreal Sept. II on a special train, travelling to Winnipeg, via Chicago. After travelling over the completed line, the party went over the line under construc-tion to Edmonton, Alta, and a portion of the route westerly. They subsequently went the route westerly. They subsequently went to Prince Rupert to inspect the work in progress there. A press report states that the resignation of officials at Winnipeg is due "to the deplorable condition of the-new system which has been rushed through for political reasons. In many places the track sinks as rapidly as constructed for want of ballast and proper construction." This item appears only in the newspapers of one political party, and no doubt exaggerates for political reasons the difficulties of getting a newly constructed line into operation. At Wainwright a 12-stall roundhouse is under construction, and a large force of men has been at work since Sept. 1, grading and laying out the yards.

In regard to the progress of construction west of Edmonton, it is reported that the contractors have over 3,500 men at work, the larger number being engaged between Edmonton and the Penthina River, a distance of 65 miles. It is expected that this portion of the line will be graded and ready for tracklaying by winter. The construction

The Commissioners have filed plans and maks of reference for extra land required in the County of Portneul, Que., as follows: For delitional station ground at St. Casimir, mated at mileage 45 west from Quebec bridge, and for a diversion of the public road mileage 19 west from Quebec bridge.

Reports from Abitibi, Ont., state that the

Reports from Abitibi, Ont., state that the ridge being constructed across the river there is 840 ft. long, and 94 ft. above the water ivel. The construction of the line has been sushed forward to such an extent that it is expected to have track laid from the river crossing, seven miles east of Cochrane, the anction with the Temiskaming and Northern materio Ry., and Frederick House, by Christians

On the line easterly from St. Boniface, M.m., G. A. Wade, Track Inspector, reported, Sct. 8, that the track was finally ballasted to arst Broken Head, about 32 miles; two lifts ballast had been laid on the eight miles bence to Second Broken Head, and one lift tween that point and Rennie, an additional 17 miles. Steel was laid from Rennie to Green Lake, 13 miles. A later report stated tack had been laid to 25 miles east of Rennie and that it was expected to have a further a miles laid by the end of the year. It is fan expected to lay track on about 50 miles from Lake Superior Junction westerly by the end of the year.

The contract for the construction of tank, to der and erecting shops, in Springfield municipality, 6 miles east of Winnipeg, has been warded to T. Kelly & Sons, Winnipeg. The pare is stated to be about \$500,000. On this page we give a map showing the location of the shops and yards, and a ground plan at the shops, with the proposed track layout is given on page \$13.

GRAND TRUNK PACIFIC RY.

It is expected that the branch line connection. Fort William with the National Transstational Ry, at Lake Superior Junction, with will be completed by Nov. 30. G. knowlton, Divisional Engineer, stated, Oct. That there were 30 miles of steel to be laid, but as several bridges have to be completed the work of tracklaying is being delayed. The other work on the line is well forward and everything is being pushed with the object of setting the branch finished by the date mensioned. The bridge over the river at Fort Wilhou, except for the finishing touches and the approaches, was reported to be completed Oct. In the steel work was creeted by the Canadam Bridge Co., Walkerville, Out.

The official returns for the inspection of grain at Winnipeg, issued Oct. 3, credited the G.T.P.R. with having brought 13 carloads of wheat into the city. Previous shipments of grain coming from points on the G.T.P.R. Previous shipments of had been brought into Winnipeg over the Canadian Northern Ry, from Portage la Prairie. The service given on the line is three trains a week between Winnipeg and Waterous, Sask., 408 miles, and two trains a week between Waterous and Wainwright, 258 miles. On this stretch of line there are 97 stations. During his recent inspection of the line the President, C. M. Hays, said it was expected that the line would be completely ballasted east of Saskatoon early in Oct. proposition had been made by the Canadian Northern Ry, for the construction of joint terminals there, but nothing in the way of an agreement had been reached. The construction of the bridge across the Battle River is expected to be completed early in Nov. The bridge has a total length of 2,772 ft., and the centre spans are 160 ft. above the concrete piers. The superstructure is carried on 53 As soon as the bridge is completed, track will be laid across it and tracklaying will be resumed on the roadbed west of the Battle River and pushed forward towards Edmonton. The bridge over the Saskatchemunonion. The orange over the Saskitchewan River at Clover Bar is also expected to be completed early in Nov. It is expected that track will be laid into Edmonton by the end of the year. C. Schreiber, consulting engineer to the Department of Railways, who returned to Ottawa Sept. 28, after an inspection of the line, said the new railway will be in full operation from Winnipeg to Edmonton by Jan. 1, 1909. A joint station with the Canadian Northern Ry, at Edmonton will, it is understood, be constructed. Between Edmonton and Wolf Creek, Alta., a distance of 127 miles, the grading is well advanced, and it is expected that the grading gangs will be within 10 miles of Wolf Creek by the end of Tracklaying will be started from the year. Edmonton westerly, Dec. 1, and will be continued to Peubina River, a distance of 65 miles. At this points a large bridge is under construction, the foundations of which it is hoped to complete by Feb. 1. The steel work for this bridge will then be completed and The contract tracklaving pushed westward. for the substructure of the bridge across Wolf Creek is expected to be let at an early date.

The company will call for tenders for the construction of 200 miles from Wolf Creek westerly at an early date, which will bring the mileage under contract well into British Columbia. Final arrangements for the route over the inner table land have not yet been

made, but it is understood that this matter was discussed between the British Columbia Government and C. M. Hays, President G.T.P.R., during the latter's visit to Victoria, Oct. 14.

Oct. 14.

Mr. Hays returned to Vancouver, B.C., from Prince Rupert, Oct. 13. He said he had been up the Skeena River as far as its confluence with the Copper River, making an inspection of the construction going on there. He was very well pleased with the progress made by the contractors, and announced that tenders would be asked at an early date for the construction of a further 100 miles easterly from Prince Rupert.

erly from Prince Rupert.

C. C. Van Arsdol, Division Engineer, who formerly had his headquarters at Edmonton, Alta., and is now located at Prince Rupert, B.C., has jurisdiction over construction from that point to the McLeod River. R. W. Jones, Division Engineer, who has transferred his staff from Suskatoon to Edmonton, closing the Saskatoon office, has had his jurisdiction extended westerly to the McLeod River.

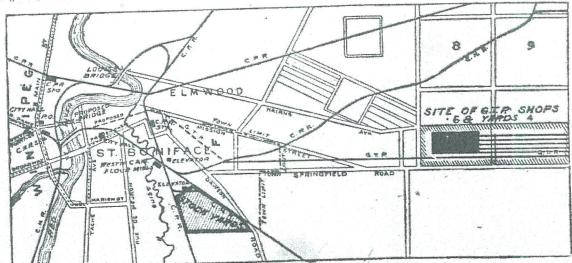
The Toronto Globe's Ottawa correspondent

The foronto Globe's Ottawa correspondent wired, Oct. 20, that the G.T.P.R. proposes to construct what will be practically a second line of railway stretching right across the prairie provinces. The route as projected will start from the present main line north of Brandon, run to that city, thence west across Saskatchewan, and into the coal districts of Southern Alberta. We are advised that this is no new proposition. Probably the report has reference to some of the various branches contemplated to act as feeders to the main line and which were shown on the map we issued as a supplement in Nov., 1907.

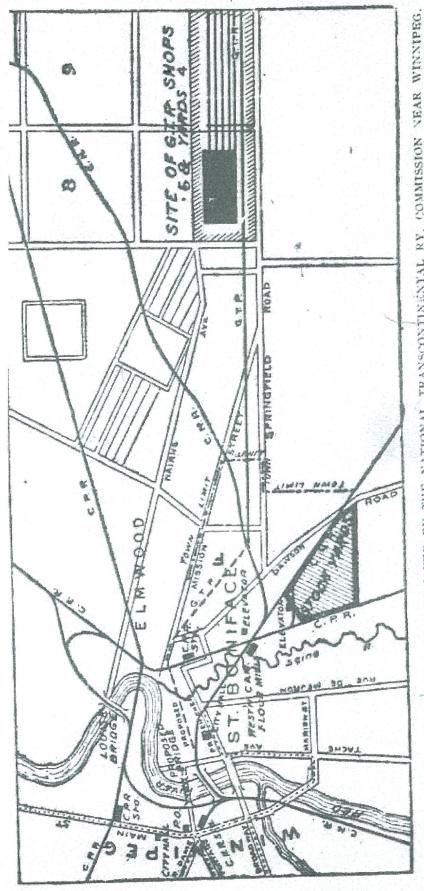
In an interview at Victoria, B.C., Oct. 14, Mr. Hays said the company eventually intended to have a branch southerly into that city, where a water frontage had already been secured. This water frontage, local reports state, was acquired at a cost of \$150,000. There were, said Mr. Hays, some details of the project to be worked out, but it was desired that the line, when constructed, would run the entire length of Vancouver Island. The general plans of the company show such a line and also a line from Vancouver, connecting with the main line at Fort George, B.C.

The company has placed an order for 15,752 tons of steel rails with the Algoma Steel Co., Sault Ste. Marie, Ont, and another for 28,695 tons with the Dominion Iron and Steel Co., Sydney, N.S. (Oct., pg. 725).

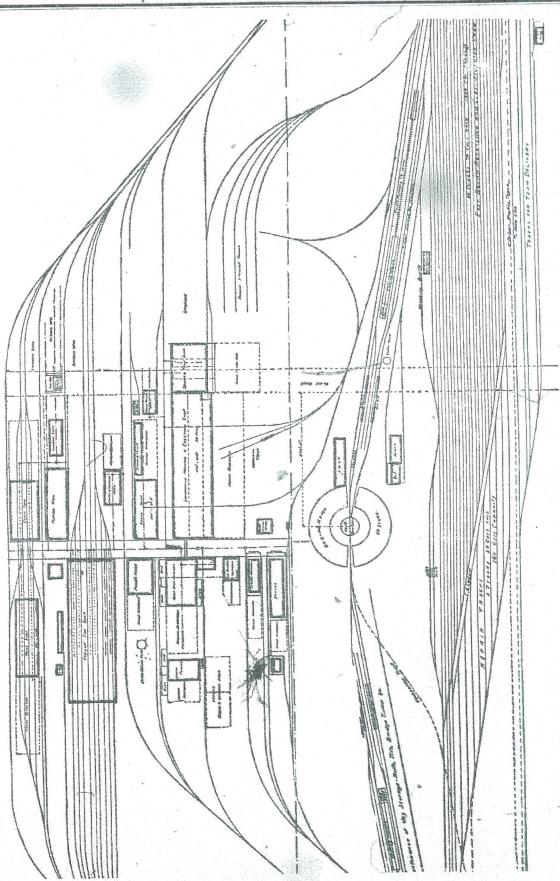
D. B. Hanna, Third Vice-President Canadian Northern Railway, expects to leave Toronto on a trip to Great Britain early in November.



MAP SHOWING SITE OF SHOPS TO BE ERECTED BY THE NATIONAL TRANSCONTINENTAL BY, COMMISSION NEAR WINNIPEG.



SHOPS TO BE ERECTED BY THE NATIONAL TRANSCONTINENTAL RY. COMMISSION MAP SHOWING SITE OF



GROUND PLAN OF NATIONAL TRANSCONTINENTAL RAILWAY SHOPS AND VARDS NEAR WINNIPEG.

C. M. Hays, President G.T. Pacific Ry., and Second Vice-President G.T.R., said recently, in Toronto, that any idea of the G.T.R. Co. withdrawing from the arrangement was out of the question and hardly worth consideration. He was more and more convinced of the wisdom of the G.T.R. going into the enterprise, and also more and more confident of the country's future. W. Wninwright, Fourth Vice-President G.T.R., has also emphatically denied the reports published to the effect that on account of the cost of construction of the eastern division of the railway, the G.T. Pacific Ry. Co. will seek legislation at next session of the Dominion Parliament, bettering its condition under the contract. He states that no such thing has ever

been thought of.

C. O. Foss, District Engineer, returned to St. John, N.B., Nov. 12, from a trip of inspection over the section of the line under construction between Moneton and Mc-Gibney's. There were found to be 4,860 men, 1,203 horses and 12 steam shovels, with other plant in proportion, utilized by the six firms of contractors engaged in the 256.3 miles under his jurisdiction. The contractors have made good progress, the estimate as to the work done being as follows. Moncton to within six miles of Chipman, 50 miles, Corbett and Floesch Co., 44% completed. From the last named point to eight miles beyond Chipman, 14 miles, J. W. McManus Co., 29% completed. From the last named point to the crossing of the old Canada Eastern Ry., at a point 34 miles from Fredericton, 30.3 miles, Toronto Construction Co., 22 6 completed. From the last mentioned point to Plaster Rock, 66.3 miles, Toronto Construc-tion Co., 7% completed. From Plaster Rock to Grand Falls, 31.9 miles, Willard Kitchen Co., 27% completed. From Grand Falls to the Quebec boundary about 25 miles west of Edmundston, 60.8 miles, Lyons and White, 52 % completed. The first four of these contractors are working under the general contractors of the G.T. Pacific Ry., the other wo having taken their contracts directly from the Transcontinental Ry. Commission-The work in progress covers grading, crubbing, etc., but does not include the congruction of steel bridges, or the rails, both of which are supplied by the Commissioners

At the Moncton end the roadbed has been Il completed ready for the rails, and at the nd of Oct., 10 miles of track had been laid. he construction of the telegraph line is in rogress and it was expected that by Dec. 1, would be ready for operation between Moneton and Canaan River The bridge vork on several sections of the first 50 miles vas also reported to be making satisfactory

S. R. Poulin, District Engineer at Winnieg, on his retfirm from a trip of inspection asterly to Superior Junction, Nov. 1, reported that track had been laid to about 12 ailes beyond Rennie. Work, however, was

from (trains Fort V time c miles miles; Wolf vet 1. Ruper Pacific he ha Provin \$200,0

On ton, i Battle which sume Wall about a con Edm Batti progt put I lius 1 Wair smal

point W weat and It n rem: ing 1 bina thus

> 11 Brit and 101 1 cua

> > No.

WOI

ahi the SILT the 15 Titl err Ka alt

176 TO SW 115 131

1 TÌ 17

P

C.1.1v.

National Transcontinental Railway.

C. M. Hays, President G.T. Pacific Ry., and Second Vice-President G.T.R., said recently, in Toronto, that any idea of the G.T.R. Co. withdrawing from the arrangement was out of the question and hardly worth consideraof the question and hardly which considered than. He was more and more convinced of the wisdom of the C.T.R. going into the enterprise, and also more and more confident of the country's future. W. Wainwright, Fourth Vice-President G.T.R., has also employed the country desired the reports amblifued to phatically denied the reports published to the effect that on account of the cost of construction of the eastern division of the cal-way, the G.T. Pacific Ry. Co. will seek legis-lation at next session of the Dominion Parisament, bettering its condition under the con-He states that no such thing has ever been thought of.

Deen thought of. C. O. Foss, District Engineer, returned to St. John, N.B., Nov. 12, from a trip of in-spection over the section of the line under spection over the section of the fine uniter-construction between Monthon and Mc-Gibney's. There were found to be 4,860 men, 1,203 horses and 12 steams shovels, with men, 1,203 horses and 12 steam shovers, was other plant in proportion, updated by the six firms of contractors engaged in the 256.3 miles under his jurisdiction. The contractors have made good progress, the estimate as to the work done being as follows: Moneton to within six miles of Chipman, 50 miles, Corbott and Floesch Co., 41% completed. From bett and Floesch Co., 41% completed. the last named point to eight miles beyond Chipman, 14 miles, J. W. McManus Co., 20 % completed. From the last named point to the crossing of the old Canada Eastern Ry, at a point 34 miles from Fredericton, 39,3 miles, Toronto Construction Co., 29.5° completed. From the last mentioned point to Plaster Rock, 66.3 miles, Toronto Construction Co., 7% completed. From Plaster Rock ton Co., 1 & Completes. From reaster Rock to Grand Fails, 31.9 miles, Willard Kitchen Co., 27 % completed. From Grand Falls to he Quelec boundary about 25 miles west of Edmundston, 60.8 miles, Lyons and White, 52 % completed. The first four of these on completed. The arsi four of these contractors are working under the general contractors of the G.T. Pacific Ry., the other wo having taken their contracts directly from the Transcontinental Ry. Commission. 52% completed. The work in progress covers grading, rubbing, etc., but does not include the concruction of steel bridges, or the rails, both of which are supplied by the Commissioners
At the Moncton end the roudbed has been

Il completed ready for the rails, and at the nd of Oct., 10 miles of track had been laid he construction of the telegraph line is in rogress and it was expected that by Der 1. would be ready for operation between doneton and Canan River. The bridge vork on several sections of the first of miles eas also reported to be making satisfactory

S. R. Poulin, District Engineer at Winnieg, on his return from a trip of inspection asterly to Superior Junction. Nov. 1, resorted that track had been laid to about 12 tiles beyond Rennie. Work, however, was

being concentrated on ballasting the track already laid. It was expected to resume tracklaying in a short time ofter he left, and to be able to lay the steel as for as the cross ing of the Winnipeg River by Christmas. The grading of the whole distance to Superior let, to meet the branch to Fort Williams, under construction by the C.T. Pacific Ry, is expected to be completed by April, 1909.

GRAND TRUNK PACIFIC RY.

C. M. Hays, President C.T.P.R., on his return to Montreal, Oct 30, from a trip of inspection as far as Prince Rupert, R.C., said he felt quite safe in declaring that he did not apprehend any conditions would arise engineering, financial or otherwise—that would prevent the line from being completed from and to only by the 1911. Regular from end to end by Dec. 1911. Regular trains would be running next spring from Fort William to Edmonton. Within a short time contracts would be let for another 100 miles easterly from the coast section of 110 miles, and for 200 miles further westerly from whiles, and an Leo more sturder westerly from Wolf Creek, B.C., leaving a gap of 400 miles vet to be placed under contract. Prince Rupert had perhaps the finest dock on the Pacuic coast, and while in British Columbia, he had concluded arrangements with the Provincial Covernment for the spending of \$200,000 at the terminus.

On the line between Winnipeg and Edmonton, it was expected that the bridge over the Battle River would be completed Nov. 15, which would enable trackleying to be re sumed wound ename tracknying to be re-sumed towards the crossing of the Saskatche-wan River at Clover Bar. The laying of about another 100 miles of track will linke a connection with the track hald easterly from a connection with the track and easterly from Edmonton. At various points on the line to Battle River, works of betterment are in progress, station buildings, etc., are being put up, stilings laid down, etc. A contract has been let for the erection of a station at Wainwright, a divisional point, and ten moder stations are to be built at intervaning smaller stations are to be built at intervening

points.

Westerly from Education the cold, rough weather has affected the progress of the work, and large numbers of men have been kild off. It was hoped that the weather would have remained sufficiently open to enable the grading to have been completed as far as the Pembina River before the close of the year, but this is now hardly to be expected.

In connection with the surveys through British Columbia, the parties working north and south met near Buckley Sunnit, about 70 miles north of Fraser Lake, Nov. 6

On the contract casterly from the Pacific coast, J. W. Stewart stated in Vancouver, Nov. 10, that it was expected to be able to work all winter. There were about 2,500 men at work, but his firm would like to be abie to get twice that number to go out to the job. Arrangements were being made for sending in four steam shovels for the work in the vicinity of Invertess. At this point there is some difficulty in deciding finally on the route. The original survey follows the east ern side of Porpoise horbor and through Kane and Part Edward townsites, while an alternative route agrees Porpoles Island is being considered. The adoption of this route would involve the construction of a swing laidge, estimated to cost \$1,000,000, byer Porpoise channel. Even with the cost of this bridge the contractors state that the work can be done at less expense, and a ter roadbol can be provided than by follow me, the original survey.

A report from Edmonton, Alta, states that A N Parker, of Minneapolis, Minne, who arrived there from the Pine Pass country. Nov had completed a reconnaissance survey room Pon Essington and Hazelmere to Edmonton, in the GPPR interests Arr Parker, in general terms, said the Pire Pass was suitable for the construction. In a Bway.

and that the country through which such line would run was a caluable our

At a meeting of the St. John, N.B., city council, Nov. 2, a letter was read from F. W. Morse, Vice-President G.T.P.R., asking the city to submit a proposition as to what would be done to assist the company to enter St. John, and what conveyance of property for terminals at Courtemay Bay would be made. It is generally thought that the railway will It is generally thought that the railway will be able to enter the city and reach Courtenay Buy by the same mute as the Intercolonial Ry, from either Moneton or Norton, by at rangement with the Dominion Government unwhich case access to Courtenay Bay could be arranged for as well. The principal difficulty is as to arranging for room for sidings and yards. Although willing to do all that is possible to assist the railway entering the city and establishing to compare the city and establishing to compare the city and establishing technicals. the city and establishing terminals, there up pears to be some mawillingness on the part the city council in giving up its rights. The whole question is being considered by the gouncil's beard of public works.

Nov. 3. At the end of Det the track has been laids to within six unles of the point of junction with the main line casterly from Winnipeg, and in that six miles there we two large wooden trestles to complete. The bulkasting of the branch is well in hand, an the other work of completing the line to operation is forward. It was unnounce Nov. 27, that the line was open for traffic

The Commissioners of the N.T.R. report that the whole of the Eastern Division, from Moncton, N.B., to Winnipeg, Man., is now under contract. Considerably over 150 miles of steel had been laid to Nov. 30, and there is a good mileage of the roadbed ready for tracklaying in sections, while much progress has been made with the clearing, rock cutting and filling on other portions of the line. Most of the actual work done has been from Moncton to the St. Lawrence River, from the St. Lawrence River to Weymontachene, on the eastern end of the division, and from Winnipeg to Lake Superior Junction at the western end. There has also been considerable work done in the vicinity of Lake Abitibi. A statement of the condition of the various A statement of the condition of the various contracts follows: From Moncton 50 miles west, under contract to the G.T.P.R. Co., much grading done and some rails down; next section west, J. McManus, eight miles, good progress; next section, G.T.P.R. Co., two contracts, one of 40 and the other of G.T. miles, much gradient done, next section. 67 miles, much grading done; next section, W. Kitchen Co., 31½ miles, well advanced toward completion; next section, Lyons & White, 62 miles, to New Brunswick-Quebec boundary, work well advanced; M. P. & J. T. Davis, 204 miles, to Quebec bridge, work well advanced over whole contract; M. P. & J. T. Davis, from the St. Lawrence 50 miles west, good progress and some rails kild; Macdonald & O'Brien, 100 miles, good progress and some rails laid; G.T.P.R. Co., 45 miles, to Weymontachene, good progress; Macdonald & O'Brien, 221 miles, progress; Macdonald & O'Brien, 221 miles, roads being cut and supplies taken in; C.T.P.R. Co., 150 miles, to eight miles west of Abitibi River, preliminary and some grading work done; E. F. & G. E. Fauquier, 100 miles, preliminary and some grading work done; M.P. & J. T. Davis, 204 miles, contract just awarded and supplies being taken in; E. F. & G. E. Fauquier, 275 miles, contract let last spring and preliminary contract let last spring and preliminary construction work commenced; O'Brien & McDougal, 150 miles, to Superior Jet., con-tract just awarded; J. D. McArthur, 245 miles, from Superior Jet to Winnipeg, 80% of the work completed.

In a booklet published by the G.T.R.,

In a booklet published by the G.T.R., the company reviews its position and says with regard to the Eastern Division: "By the terms of the lease to the company of this portion of the railway it will be seen that the company will practically have the ree use of it for seven years, and taking into account the time allowed for construction, which is fixed at seven years, no recount of rental until 1919, and since it is to pass through an entirely new and undeveloped section of the country which now known to be rich in agricultural nd mineral resources, as well as timber, is anticipated that long before the first syment on account of rental becomes the theorem will have reaped a rich invest from the traffic that will exist upon completion. This section of the line tween Quebec and Winnipeg will pass trough what may appropriately be termed a mineral belt of eastern Canada, as in its district, adjacent to the main line, are atted the now famous Cobalt deposits, well as nickel, copper, iron, etc., which conly awaiting the advent of the railway be brought forth for manufacture."

The permanent rails for the N.T.R. were into Moneton, N.B., Dec. 1, the tracks ming the Intercolonial Ry. about a quarter a mile from the station, and on the west-moutskirts of the city.

At Cochrane, Ont., where the Temisuing and Northern Ontario Ry, effects junction with the N.T.R., the right-ofwy has been cut out for a considerable January 1708 1909

THE RAILWAY AND MARINE WORL

distance in both directions. A mono-rail line is in operation along the right-of-way for the conveyance of supplies from the crossing of the Abitibi River to the junction. The single rail is laid on ties placed 4 ft. apart, a car about 10 ft. long, supported by two wheels on one side, is used to convey the material, a horse at the side supplying the supporting as well as the motive power.

port

ion,

an.,

ver 30.

bed

hile

the

ther

tual the

ence

tern z to

tern

able

tibi.

ious niles

Co.,

)WII;

ulles.

Co., r of

tion,

nced

15 &

ebec · 82

idge,

ract:

ence

rails iiles,

P.R.

good

iiles,

III;

The contracts for the last sections of one division to be placed under contract have been signed. These were let to M. P. and J. T. Davis, Quebec, and are for the following sections, tenders for which were asked Sept. 12: Districts D and E from the western end of Fauquier Bros.' Abitibi contract, westerly for 104 miles. District E, from about 60 miles west of the easterly boundary of this district easterly to the west of Fauquier Bros.' contract, north to Lake Nipigon, about 100 miles. This work is to be completed by Dec. 31, 1910. There are at present no means of communication with this district, and the contractors will themselves have to construct a wagon road northward from Jackfish Bay, on Lake Superior. This is now being surveyed, and it is expected that most of the construction in this part of Ontario will . be put in hand early in the spring.

We are advised that none of the tenders recently sent in for some of the buildings at the shops to be erected near Winnipeg has been accepted. It was originally stated that the tender of T. Kelly & Sons had been accepted, but the Commissioners' Engineer reported that probably better prices could be obtained for the work if tenders were asked for the whole plant instead of for separate buildings. It is stated that tenders will be asked at an early date for the

whole of the plant.

west some uier. dino

The Commissioners of the N.T.R. report that the whole of the Eastern Division, from Moncton, N.B., to Winnipeg, Man., is now under contract. Considerably over 150 miles of steel had been laid to Nov. 30, and there is a good mileage of the roadbed ready for tracklaying in sections, while much progress has been made with the clearing, rock cutting and filling on other portions of the line. Most of the actual work done has been from Moneton to the St. Lawrence River, from the St. Lawrence River to Weymontachene, on the eastern end of the division, and from Winnipeg to Lake Superior Junction at the western end. There has also been considerable work done in the vicinity of Lake Abitibi.
A statement of the condition of the various contracts follows: From Moneton 50 miles west, under contract to the G.T.P.R. Co., much grading done and some rails down; next section west, J. McManus, eight miles, good progress; next section, G.T.P.R. Co., two contracts, one of 40 and the other of 67 miles, much grading done; next section, W. Kitchen Co., 31½ miles, well advanced toward completion; next section, Lyons & White, 62 miles, to New Brunswick-Quebec 311/2 miles, well advanced boundary, work well advanced; M. P. & J. T. Davis, 204 miles, to Quebec bridge, work well advanced over whole contract; M. P. & J. T. Davis, from the St. Lawrence 50 miles west, good progress and some rails laid; Macdonald & O'Brien, 100 miles, good progress and some rails laid; G.T.P.R. Co., 45 miles, to Weymontachene, good progress; Macdonald & O'Brien, 221 miles, roads being cut and supplies taken in; G.T.P.R. Co., 150 miles, to eight miles west of Abitibi River, preliminary and some grading work done; E. F. & G. E. Fauquier, grading work done; and some grading work done in the state of the state o grading work done; E. F. & G. E. Fauquier, 100 miles, preliminary and some grading work done; M.P. & J. T. Davis, 204 miles, contract just awarded and supplies being taken in; E. F. & G. E. Fauquier, 275 miles, contract let last spring and preliminary construction work commenced; O'Brien & McDougal, 150 miles to Supplier Let. McDougal, 150 miles, to Superior Jet., contract just awarded; J. D. McArthur, 2457 miles, from Superior Jet. to Winnipeg, 80%

In a booklet published by the G.T.R., the company reviews its position and says with regard to the Eastern Division: "By the terms of the lease to the company of this portion of the railway it will be seen that the company will practicelly have the ree use of it for seven years, and taking anto account the time allowed for construction, which is fixed at seven years, not account of rental until 1919, and since it to pass through an entirely new and undeveloped section of the country which now known to be rich in agricultural and mineral resources, as well as timber, is anticipated that long before the first ayment on account of rental becomes the, the company will have reaped a rich revest from the traffic that will exist upon become Ouebec and Winnipeg will pass trough what may appropriately be termed mineral belt of eastern Canada, as in a district, adjacent to the main line, are rated the now famous Cobalt deposits, well as nickel, copper, iron, etc., which only awaiting the advent of the railway be brought forth for manufacture."

The permanent rails for the N.T.R. were into Moncton, N.B., Dec. 1, the tracks ming the Intercolonial Ry. about a quarter mile from the station, and on the west-outskirts of the city.

outskirts of the city.

At Cochrane, Ont., where the Temisuning and Northern Ontario Ry. effects
junction with the N.T.R., the right-ofw k has been cut out for a considerable

distance in both directions. A mono-rail line is in operation along the right-of-way for the conveyance of supplies from the crossing of the Abitibi River to the junction. The single rail is laid on ties placed 4 ft. apart, a car about 10 ft. long, supported by two wheels on one side, is used to convey the material, a horse at the side supplying the supporting as well as the motive power.

The contracts for the last sections of one division to be placed under contract have been signed. These were let to M. P. and J. T. Davis, Quebec, and are for the following sections, tenders for which were asked Sept. 12: Districts D and E from the western end of Fauquier Bros.' Abitibicontract, westerly for 104 miles. District E, from about 60 miles west of the easterly boundary of this district easterly to the west of Fauquier Bros.' contract, north to Lake Nipigon, about 100 miles. This work is to be completed by Dec. 31, 1910. There are at present no means of communication with this district, and the contractors will themselves have to construct a wagon road northward from Jackfish Bay, on Lake Superior. This is now being surveyed, and it is expected that most of the construction in this part of Ontario will be put in hand early in the spring.

We are advised that none of the tenders recently sent in for some of the buildings at the shops to be erected near Winnipeg has been accepted. It was originally stated that the tender of T. Kelly & Sons had been accepted, but the Commissioners' Engineer reported that probably better prices could be obtained for the work if tenders were asked for the whole plant instead of for separate buildings. It is stated that tenders will be asked at an early date for the whole of the plant.

GRAND TRUNK PACIFIC RY.

A summary of the work done on the construction of the section of the N.T.R., which is being constructed by the G.T. Pacific Ry., shows that the laying of track on the 666 miles from Winnipeg to the Battle River had been completed; as well as on the branch line from Fort William to Superior Junction, Out. 188 miles, and that trains were being operated on both sections. The erection of the bridge over the Battle River was completed Dec. 15, and track laid over it. This will enable tracklaying to be resumed on the completed roadbed towards Edmonton, Alta. It is intended to have the line completed and opened for traffic as far as Edmonton by the fall. Grading has also been completed to the end of the Prairie section at Wolfe Creek, 129 miles west of Edmonton, and

For operating purposes the section of the line recently opened for traffic between Winnipeg, Man., and Wainwright, Alta., has been designated the Prairie Division.

The G.T.P. Ry Co. will make application next session of the Dominion Parliament for an act ratifying and confirming an agreement dated June 6, 1908, made between tself and the Midland Ry. of Manitoba, respecting joint facilities at Portage la Prairie, Man.

A station building is under construction at Waterous, Sask, by the Carter-Halls-Aldinger Co., of Winnipeg, which has also contracts for the erection of stations at

Biggar and Wainwright.

The location survey for the main line between Edmonton and Prince Rupert was reported to have been completed Nov. 26. The parties working in the vicinity of Fort George, B.C., were the last in the field, and they came out to Asheroft Nov 26. It is probable that during the surner some surveys will have to be undertaken for the revision of the surveys just

completed. R. P. Bishop, one of the engineers, states that the line has been located for part of the distance through the Nechaco district, into which many settlers were going. The surveyed route crosses the Fraser River just above Fort George, and follows the south shore of the Nechaco River nearly to Fraser Lake. Thence it skirts the south shore of Fraser Lake as far as Stella. From there two lines have been laid out.

Large quantities of equipment continue to be shipped from Vancouver to Prince Rupert, B.C., for Foley, Welch and Stewart, the contractors for the building of the G.T.-P.R. easterly. Among the plant are two steam shovels to be used on the laying out of the terminal yard at Prince Rupert. The work of laying out the townsite is being rapidly proceeded with, preparatory to opening it up in May, in accordance with the agreement with the B.C. Government.

In a recent interview C. M. Hays, President G.T.P. Ry., said be expected that the company's easy gradients—not more than 21 ft. to the mile going west—would in a few years twist around a great portion of the wheat export trade of the northwest, and with the opening of the Panama Canal in 1914, Canada would send wheat to Europe and Asia by way of the Pacific Ocean. He looked forward to seeing Prince Rupert one of the great wheat ports of the world.

G.T. PACIFIC BRANCH LINES.

The Lake Superior Branch, extending from Fort William to Superior Jet., on the main line from Winnipeg to Moncton, N.B., was opened for traffic Nov. 27, and is being operated as the Lake Superior Division. The mileages of the different station points are: Westfort, Fort William, 0.0; C.P.R. crossing, 0.6; Albe, 7.4; Baird, 13.21; Crest, 20.90; Dona, 26.42; Ellis, 32.83; Flett, 38.82; Griff, 45.72; Horne, 51.05; Dexter, 56.94; Linke, 62.34; Jakes, 67.83; Knowlton, 99.57; Oscar, 107.31; Petry, 114.34; Quorn, 121.99; Reba, 127.07; Snowdon, 134.45; Tanain, 139.14; Unaka, 145.28; Valora, 151.72; Weke, 160.26; Hunt, 166.60; Yonde, 170.80; Larn, 178.05; Alcona, 185.23; Superior Junction, 188.77. The branch is being used for the purpose of taking in operated as the Lake Superior Division. being used for the purpose of taking in supplies for the construction of the main line, and it will not be until the completion of the main line from Winnipeg, that there will be any other than contractor's truffic A contract has been entered into with the Department of Railways, under the terms of the act granting subsidies in aid of certain railways, for the construction of a branch line from the National Transcontinental Ry. to Port Arthur and Fort William, Ont., a distance not exceeding 220 miles. The ratepayers of Fort William were asked to vote Jan. 1, in favor of a by-law to raise \$12,000 by means of debentures to pay for a portion of the right-of-way secured by the city for the G.T.P.R. in the city. (Dec., 1908, pg. 873.)

Press reports state that work is proceeding on the construction of a Government telegraph line from Athabasca Landing, Alta., northerly, and that it will be carried to Little River, 75 miles, this winter, and continued to the Lesser Slave Lake later in the year A sum of \$10,000 was voted at the last session of the Doninion Parliament for the extension of this line towards Peace River Landing, by way of the south side of Lesser Slave Lake. The distance between the extreme points in question is about 290 miles, and the line to be strung under this appropriation is about 70 miles. The poles, wire, etc., is being distributed along the route during the winter in readiness for erection early in the spring. It is probable that a further sum will be voted at the next parliamentary session.

Iamillitions ıst 18 iich is of its it the vill be de, as ling is achinderous reight, etting, nches. nesites eeping build-, with e carn the room ımber. dustry g and g mands of wire chains. in the

National Transcontinental Railway.

The estimates submitted to the House of Commons provide for \$20,000,000 for account of surveys and construction on the National Transcontinental Ry. during the ensuing financial year.

In connection with the question of classification of work it was stated in the Commons, Jan. 27, that C. Schreiber, Consulting Engineer of the Railway Department, had been agreed upon by the Chief Engineer of the National Transcontinental Ry., and the Chief Engineer of the G.T. Pacific Ry., as arbitrator.

Reports as to construction in New Brunswick show that with the exception of a mile or two, the right-of-way for the 255 miles through the province is all cleared. A good deal of grading has been done, and several sections of track have been laid. It is intended to lay out a division yard at Lake Napaddogan, 118 miles from Moneton, and 137 miles from the Quebec boundary.

An arrangement has been made between the G.T. Pacific Ry, and Foley, Welch and Stewart, by which the latter has taken over and will complete the contract for a section of 150 miles in the vicinity of the Abitibi River, which the G.T. Pacific Ry, sublet to the L. H. Reynolds Construction Co.

Tenders will be received to Mar. 19, for the construction and erection complete, of shops a short distance east of Winnipeg.

GRAND TRUNK PACIFIC RY.

The Design Ductions in Lainer relead

MARCH 1909

e.

il that

The estimates submitted to the House of Commons provide for \$20,000,000 for account of surveys and construction on the National Transcontinental Ry, during the eusning financial year.

In connection with the question of classifi action of work it was stated in the Commons, Jun. 27, that C. Schreiber, Consulting Engineer of the Railway Department, had been agreed upon by the Chief Engineer of the National Transcontinental Ry., and the Chief Engineer of the G.T. Pacific Ry., as arbitrator. Reports as to construction in New Bruns-

reports as to construction in New Sytus-wick show that with the exception of a mile or two, the right-of-way for the 255 miles through the province is all cleared. A good deal of grading has been done, and several sections of track have been faid. It is in

tended to lay out a division yard at Lake Napaddogan, 118 miles from Moncton, and 197 miles from the Quebec boundary. An arrangement has been made between the C.T. Pacific Ry, and Foley, Welch and Stewart, by which the latter has taken over and will complete the contract for a section of 150 miles in the vicinity of the Abitibi River, which the G.T. Pacific Ry, sublet to the J. H. Reynolds Construction Co.

Tenders will be received to Mar. 19, for the construction and erection complete, of shops a short distance east of Winnipeg.

GRAND TRUNK PACIFIC RY

The Dominion Parliament is being asked to approve an agreement made Dec. 1, 1908, between the C.P.R. and the G.T. Pacific Ry. for terminals, etc., at Fort William, On The agreement provides for the use by the C.T.P.R. of certain sections of the C.P.R., within Fort William, to connect the lines of the two companies, for 999 years; and for the use by the C.P.R. of certain sections of the G.T.P.R. within Fort William. The agreement fixes the terms which each company is to pay for the use of the sections, which are denominated joint sections, such terms being calculated upon a percentage of the cost. The schedule attached to the agreement sets out in detail the boundarias of the area within which the joint sections are situated

Another bill before the Dominion Par-MARCH Ontario Government in respect of the construction of the Lake Superior branch. agreement provides that the company shall not grant any secret special rates or rebates, that road material for the municipalities or the Provincial Government shall be carried at actual cost of handling; that no agreement for the lease or transfer of the line to any other company shall be made without the consent of the Provincial Government. and that if the Dominion Government shall at any time take over the line, the company shall pay over the amount of the cash subsidy, and the amount or value of the land grant given by the province. The bill is being held back at the instance of the Minister of Railways

Press reports from Winnipeg stated re cently that the company was making preparations to erect a 12-story office building there. We are officially advised that there is no truth in the report. Accommodation for the company's offices is to be provided in the Fort Garry station now under con-

A third bill before Parliament is for the purpose of ratifying an agreement signed June 6, 1908, between the G T P R, and the Midland Ry, of Manitoba for the purpose of constructing a union station and other joint facilities in Portage la Prairie. Man The station and freight shed are being erected by the G.T.P.R., and the use of the facilities will be granted to the Midland Ry. upon terms set out in the act.