

Metal bridge.

Direction From construction services. Metal bridges,

Quebec, 1 November 1892.

THE HONOURABLE G.-A. Nantel,

Commissioner of Public Works,
Quebec.

Mr. Minister,

I have the honor to send the * general report on the operations of the department whose leadership entrusted to me. This report responds to the 1st November 1891 added to the General Report of the Commissioner of Public Works for the year 1891 and embraces the period of twelve months from that date. As in my previous general reports, it has been reserved for a special article each book informing all dealings and possibly the work performed. The work is divided into two parts, namely:

First-partie. statement on bridges which are mentioned in the previous general reports and on which there were new transactions.

2nd-partie. statement on bridges which have not been mentioned in the previous general reports.

These summaries have been prepared by the engineer Mr. Lafontaine, according to documents that are part of the archives department and were then reviewed by me. They show that in the course of this campaign, only one new work was started, the bridge over the river to Chicoutimi. Two other bridges, although begun last year, were almost entirely built in the summer of 1892, it is the bridge of St. Joseph d'Alma, Early Discharge on Lake St. John, and the bridge over the Rivière des Prairies between Sainte-Genevieve and Ile Bizard. Other work of the campaign, which ends were only work for the completion of works whose main parts were completed in 1891, and which were already delivered to the circulation.

According to statements by the Government during the last session of the Legislature, the situation burdened Treasury, making it necessary to severely restrict public spending, the Government has an obligation to give, at least temporarily, to help les municipalités to build bridges with metal free flow on major thoroughfares.

During the five years that this service was properly organized and placed under my direction, if the works currently in progress are completed, it has been executed, with government assistance, a total of 48 bridges with total 8252 feet length and total cost, including development of roads / bridge, amounted to \$ 580,000.00.

The government intervened in this expense for an amount of \$ 400,000.00. Its mission, in respect of these works, it is now complete, and the bridges once handed over to municipalities, is it justified to ignore it completely now? Obviously not, this work which has cost several hundred thousand dollars, is complete, unless measures are taken to produce all its effects, that is to say that books retain their qualities as well established Sustainability almost indefinitely. This requires that they be adequately maintained, inter alia, by painting from time to time to prevent damage that would cause deep and rapid rusting. Unfortunately, as I have repeatedly pointed out, one can hardly expect that municipalities understand their true interests in this matter. Without coercive legal measures. I dare say that no maintenance work will be done, and I think I should stress one more time so that the provisions already included in the Statutes of the Province are completed and that they explicitly decreed, as a sanction for these provisions, the official implementation maintenance and manner of collection costs in connection with the state.

The mission which I had the honor to be entrusted with the Government of the Province of Quebec, will end soon: I trust, Sir, for having contributed, within my means, to achieve the intended purpose as the Honourable Prime Minister, when, in May 1887 he was praying the King's Government, through the Belgian Consul General in Canada, to provide the Provincial Government, a Belgian engineer belonging to the corps des Ponts et Chaussées.

Please accept, Excellency, the assurances of my highest consideration.

The Executive Engineer,

(Signed) Gerard M acquisitions.

EXPLANATORY Telat bridges which are mentioned in le previous general reports and on which there were new transactions.

Argenteuil.

BRIDGE ON THE RIVER ROUGE, dan8 GRENVILLE.

Despite the formal and final refusal has been notified to the interested parties after deliberations of the executive council, the municipal councils of G-Renville and Increase formulated, June 20, 1892, a new grant application. In a report dated June 21, Mr. Macquet summarizes the reasons for the decision of the Executive Council.

ARTHABASKA.

BRIDGE ON THE RIVER RÉCANCOUR, STE-ANNE'S SAULT.

On behalf of the manufacturer of the metal superstructure, "The International Public Limited Company," Braine-le-Comte, Belgium, ended January 11, 1892.

BAGOT.

BRIDGE ON THE RIVER WHITE, A STEPHREM OF UPTON.

The assembly began on 1 January 1892 was completed on February 2. Tests of the metal superstructure on the same day gave entirely satisfactory results. The last payment due for this company to the Dominion Bridge Co. was ordered last August 16.

Under agreements between municipality ls * St Ephrem d'Upton and the government, embankments and ramps of the bridge were to be executed by and paid by the said municipality. This, however, denies having assumed that responsibility.

It is this difference that comes from the current incompleteness of this part of the company. All plans and documents concerning the case have been delivered on June 21 last to Mr. McDonald, MPP, please communicate with interested parties.

A council resolution, dated July 6, puts the government continues to complete work on pain of all damages that may result from its incompleteness. No new decision has been made to the subject by the government.

Settlement from the masonry will be done soon with the contractor Mr. Fr. LeMoine.

BEATTCE.

BRIDGE ON THE RIVER BOILER, ST-GEORGE.

He has been given to this project as a simple acknowledgment of a council resolution, dated June 5, requesting the Honorable Commissioner of Public Works to retain for the construction of this bridge grant granted by the previous government. On September 21 C. M. I. Sola, the agent of international business corporation, arguing that the government does not perform this work, has demanded repayment, with interest, the security deposited by him as security for the undertaking of the metal superstructure, as well as an allowance of \$ 2,000 as a forfeit to the government.

Following the comments that were submitted in response to this claim, Mr. Sola has agreed to await the outcome of the ongoing trial between the City of St. G-eorge and few taxpayers of this parish, reserving all his rights in case the government would not execute this work.

BRIDGE ON THE RIVER ARM, ST-VICTOR OF TRING.

On behalf of the manufacturer of the metal superstructure "The International Public Limited Company," Braine-le-Comte, Belgium, was BELLECHASSE.

BRIDGE ON THE RIVER ARMS, AND BETWEEN ST RAPHAEL ST VALLIER.

By letter dated September 12, Mr. A. Fontaine, Quebec City lawyer, on behalf of the mayors of municipal councils concerned applies for a grant of \$ 2,500.00 to partially cover the cost of construction of this bridge. In a report issued Sept. 14 to the Honourable Commissioner of Public Works, Engineer's Technical Manager, explains the reasons why the application should be refused.

BOYER RIVER BRIDGE, ST-MICHEL.

Citing the low prices charged in its bid and losses incurred in the performance of its contract, the contractor masonry, Mr. Major Rousseau, sought a special award by letter dated August 31, 1891. On May 11, 1892, Mr. Macquet exposes the reasons more or less fair for this claim, the Honourable Commissioner of Public Works, however, believed to have stick to price freely agreed to by the contractor in its bid, and rejected the request of the latter.

CHATEAUC-Tjay.

TURCOT BRIDGE ON THE RIVER Chateaugay, Howick.

By decision of the Honourable Commissioner of Public Works, dated February 3, 1891, he has been given to the municipality of Howick's note for \$ 3,180.00, made by it in favor of the government for the construction of the bridge which s 'acts. This discount AETE made in consideration of unforeseen significant that the city has been trained to carry out the foundations of the abutments in a field whose preliminary surveys n'aAraient not accused of very poor quality.

Chicoutimi and Saguenay.

BRIDGE ON THE RIVER Chicoutimi, Chicoutimi.

Following representations made by the representatives of the County, the Honorable Commissioner agrees to limit the contribution of the municipality to \$ 3,000.00, including \$ 2,500.00 to be paid by the municipality in question and \$ 500.00 by the Department of Colonization. With these conditions, the government undertakes the construction of masonry materials and metal superstructure, the development of the surroundings remain the responsibility of the municipality. These conditions were accepted by city council resolution of Chicoutimi.

The masonry work was awarded on May 31, and those of the superstructure on June 14, respectively MM. Package and Powers of Levis, and the company "The Dominion Bridge Co.," Lachine.

The masonry was being executed has completed price schedule. He has been paid to the contractor that a / c \$ 1,500.00. The metal superstructure was undertaken on contract for the sum of \$ 7,900.00; installation will be completed Oct. 24, according to the requirements of the specification.

COMPTON.

BRIDGE ON THE RIVER ST FRANCIS, East ANGU8.

A conditional promise to build this bridge, explicitly subject to the vote of new appropriations by the Legislature, had been made on them by the previous government.

The municipality now appears to have abandoned the idea of building a steel bridge, since May 3 last, the Rev. E. F. Boudreau, curate in East Angus, requested a grant of \$ 2,000.00 for the construction of a wooden bridge. This request was referred to the Department of Agriculture and do Colonization.

BRIDGE ON THE RIVER SALMON HAS LINOWICK.

He was granted July 7, 1892, a grant of \$ 1,000.00 to the Town of Lingwick to build this bridge, which is run by the municipality outside the ordinary conditions of direction and supervision of work imposed by the government.

GASPÉ.

BRIDGE ON THE RIVER ST-JEAN, A DOUGLASTOWN.

The authorization of the federal government needed to raise the superstructure of metal at least fifteen feet above high tide. In a report dated September 8 power, addressed to the Honourable Commissioner of Crown Lands, Mr. Engineer and Chief Macquet estimated at approximately \$ 6,000.00 an increase of expenditure that would result He noted, moreover, that 'by placing the superstructure at 15 feet above high tide, you can not escape the serious disadvantage of close to shipping schooners and fishing boats the precious port of refuge for her is that the lagoon upstream the location of the proposed bridge.

It concludes that the eventual establishment of the bridge upstream of the cove.

IBERVILLE.

CREEK BRIDGE TO IBERVILLE HAZKN.

By letter dated March 15, 1890, the council offers different terms for sharing the expense of those imposed by the department. It would not depart from the rules adopted in this regard, and this decision was communicated to the parties on 18 March 1890. Since that time the department has not received any communication on this subject.

JACQUES CARTIER.

BRIDGE ON THE RIVER PRAIRIE, STE GENEVIEVE AND BETWEEN

Ile Bizard.

As a result of the negligence and unwillingness of entrepreneurs and G-mlbault Chauret, the fears expressed in the general report of last year were made and the masonry work could be completed in the course of the fall. Also the department has been obliged to apply Articles 14 and 27 of general conditions by relieving contractors of their business. A new award was ordered May 5, 1892, for the resumption and completion of construction, this new company has been entrusted to Messrs. Payment and Lemoine, the lowest bidders. Work was resumed on 29 August. This was done by order of ingénieurirecteur, demolition of masonry carried out by MM. Gruilbault and Chauret, and it was found and, in the lower ranks, construction defects, whose existence was predicted and which fully justified the austerity measures prescribed by the Head of Technical Services.

Repair of wells to make them watertight, required work quite long and expensive including former contractors are also responsible. The works are now carried on with business.

The materials of the metal superstructure are supplied hard at work, and installation will be started as soon as the masonry is completed.

JOLIETTE.

BRIDGE ON THE RIVER OUAREAU BETWEEN ST PAUL AND ST-JACQUES, (Montcalm County)

On behalf of the manufacturer of the metal superstructure, "The International Public Limited Company," Braine-le-Comte, Belgium, was closed Jan. 11, 1892.

KAMOURASKA.

BRIDGE ON THE RIVER OUELLE IN THE CROSS OF THE MUNICIPALITY

THIS NAME.

It was paid on 1 December 1891, Mr. Frs. Soucy a / c \$ 700.00 on the work of embankments and management approaches. A second a / c # 400.00 was paid February 19, 1892. After an exchange of correspondence between explanations and technical service and Frs Mr. Soucy, the latter sent an account for all the work his company, accusing the amount of \$ 622.50 as its outstanding on that date. This account balance has been reduced by the Chief Engineer to \$ 254.00 and so endorsed by the Honourable Commissioner, it was subject to acceptance by the contractor.

The dispute between the department and Mr. C. G-. Beaulieu, the metal superstructure contractor, was settled, it agreed last January 27, 1892 the offer of \$ 1,200.00 made to him by the Honourable Commissioner of Public Works for final settlement. He was also paid to the Company "The Metallurgical" a sum of \$ 1,000.00 remaining due on the amount that had been transported by the contractor BRIDGE ON EARLY DISCHARGE OF LAC ST-JEAN ST-JOSEPH D'alma.

Was correct construction defects identified by both the technical department and the contractor, the demolition of the four supports of masonry was ordered

on July 8. The contractor has complied with this measure of office and made its fees and expenses for demolition and reconstruction of these structures. It is currently implementing some work of embankments and defense embankments.

The materials of the superstructure proceeded to walk to work, the assembly will be started soon.

BRIDGE ON THE RIVER OUATCHOUANICHE. Roberval.

15 February 1892 the municipal councils and the village of Roberval Roberval she would ask the contribution of stakeholders in construction costs in question.

Based on data provided by the parties, but without being able to make a site inspection, Mr. G-Auvin engineer, in a report dated February 22, 1892, fixed at approximately \$ 900.00 the contribution of the two together.

The cost to the government would be about \$ 600.00. This preliminary estimate was provided to stakeholders on February 23 without any commitment from the government.

LAPRAIRIE.

BRIDGE ON THE RIVER OF PORTAGE, in Laprairie.

By letter dated March 18, 1892, Mr. A. J. A. Roberge, Secretary Treasurer of the Town of La Prairie, asks the government to pay the subsidy of \$ 200.00, which he says was promised by the Honourable Mr. Duhamel to help pay for the iron bridge that the municipality had constructed.

No action has been taken on this request.

LEVIS.

GARNEAU BRIDGE ON THE RIVER BOILER, St-Romuald.

The award of repair of the walls lining the slopes of the embankments of the ramp to the bridge, east side, was held on 20

The company was entrusted to Mr. F. B. Atkinson, entrepreneur, Lévis. This work is currently underway.

L'ISLET.

SUE THE RIVER BRIDGE THE TORTOISE, THE ISLET .- BRIDGE ON THE RIVER ARM-NIOHOLAS ST, ST-EUOÈNE.

On 9 November 1891, he was paid to the builder of metal superstructures of these two bridges, "The Dominion Bridge Co.," a second account of \$ 4276.00 for the set of two books.

The company account was closed January 1, 1892, by the payment of \$ 697.89.

MASKINONGE.

BRIDGE ON THE RIVER LITTLE WOLF, Louiseville.

February 20, 1892, a sum of \$ 30.00 was paid for 6olde account to the Contractor of the metal superstructure "The Dominion Bridge Co.

MATANE.

BRIDGE ON THE RIVER METIS, between Ste-Flavie and ST-OCTAVE.

The report of the Technical Service, compiled following the inspection of premises, \$ 4,500.00 to fix the contribution of the municipalities interested in building costs of this work. Copy ow report was forwarded to the mayors of Ste-Flavie and St-Octave, 5 December 1891, with the commitment of the government to enforce the bridge where the Legislature would vote sufficient funds for this Indeed, in its next session.

By resolution dated December 29, 1891, municipal councils have accepted the terms of the department. The credit to budjet by the next Legislature for the service of building bridges metal covers only the cost of completion of works in progress or for which the government was committed without reservation, the construction of this bridge does so could not be undertaken

MÉGANTIC.

BRIDGE ON THE RIVER WHITE, A PLE8SISVILLE.

On behalf of the manufacturer of the metal superstructure, "The International Public Limited Company," Braine-le-Comte, Belgium, ended January 11, 1892.

MISSISQUOI.

BRIDGE ON THE RIVER Yamaska, FARNHAM.

The company for the construction of the icebreaker to establish upstream of the central pier has been entrusted, February 22, 1892, the lowest bidder, Mr. Frs. Lemoine, the sum of \$ 1,775.00. The work is almost completely ended April 27 last, he was paid to the contractor to a first account of \$ 1,000.00.

It remains to put the fittings on duty, they will be raised as soon as the ice has taken in the river and thus access the icebreaker will be made easier.

BRIDGE ON THE RIVER YAMASKA, Cowansville.

The metal superstructure undertaken by The Dominion Bridge Co "was raised in the month of December 1891. This company has received an initial a / c \$ 1915.00 on the price of the work amounting to \$ 2,916.00.

The superstructure of this work has received two recent layers of paint in the month of May, some minor finishing work was done and then it was paid to the contractor, August 16, 1892, a sum of \$ 1,000.00 . to account balance.

The account of Frs Lemoine, masonry contractor, will be resolved shortly.

MONTMAGNY.

BRIDGE ON THE ARMS OF ST NICHOLAS RIVER SOUTH A ST THOMAS.

The account works contractors masonry, MM. Package and Powers, was closed Jan. 7, 1892, by the payment of a sum of

The metal superstructure was executed in the workshops of the company "The Dominion Bridge Co.," Lachine.

The mounting foot work was started on 1 February 18 '2 and was completed on 25 of the month, except peiuturage and some minor finishing work. First a / c \$ 3,000.00 was paid on April 20. The work was fully completed to the satisfaction of Technical Services, a sum of \$ 2357.50 was paid to the contractor on August 16 last, for account balance.

BRIDGE ON THE RIVER, SOUTH ST-FRANÇOIS.

Replying to a question provoked by Mr. Choquette, MP, Mr. Engineer and Chief Macquet reported, December 14, 1891, establishing the rights possessed by the company that owned the old wooden toll bridge, continue to collect tolls on the bridge said that all taxpayers, under a municipal distribution would have to cooperate in training funds to pay quotatepart of the municipality concerned in the cost of constructing the new bridge.

BRIDGE ON THE RIVER SOUTH, ST-PIERRE.

The assembly of the metal superstructure was completed December 2, 1891, the painting has been executed in the month of May 1892.

The work of landscaping and defense embankments were resumed on 3 September and are now completed.

A sum of \$ 150.00 was paid to the contractor as compensation for additional costs caused by the interruption of work. However, it has protested against the inadequacy of this compensation.

The dispute between Mr. P. Bacon and the department regarding the expropriation of a plot, has not yet been resolved. A petition from Mr. Bacon addressed simultaneously to the Honourable Attorney-General and the Honourable Commissioner of Public Works, in claiming indemnity of \$ 4,000 has been postponed, and the department in accordance with the conclusions of the report of the Chief Engineer service, has simply maintained its offer of \$ 100.00.

OTTAWA.

BRIDGE ON THE RIVER GATINEAU, HULL.

The report Macquet Mr. Engineer, dated January 15 this book would be \$ 85.550, the new bridge to include three fixed spans of 160 '8 "Opening each, and two equal spans of 60' each opening covered by a swing bridge.

Copy of this report was communicated February 16, 1891 to MA Rochon, a member of the Legislative Assembly for Ottawa County.

No further action was taken in this case.

FONTIAC.

OTTAWA RIVER BRIDGE BETWEEN ISLAND AND BRYSON

AT OALTJMET.

By application dated June 10, 1891, the County Council requested that the Pontiac chargeât government bonds for the construction of this bridge. It was not acted on this request

PORTNEUF.

BRIDGE ON THE RIVER JACQUES-CARTIER, BETWEEN THE CAPE AND HEALTH

THE SQUIRRELS.

Recall that this structure was not built according to the ordinary conditions of the department and for that reason, he was distracted Special Service metallic bridges at the request of the engineer-director of the service.

The masonry has been rebuilt in the course of the campaign of 1891.

The test of the metal superstructure that was taken last April 21 by the engineer Mr. Vallée has produced satisfactory results. But it was found that the flat-bottom band beams was at a lower level than had been expected. Therefore raising the metal superstructure, was ordained June 20, 1892. This work was fully completed on August 26.

He was paid on September 22, contractors Chs Coté & Co. the sum of \$ 2,674.50 as balance of their contract and \$ 230.00 for some additional work. He was also paid \$ 7125.00 the company "The Dominion Bridge Co", Lachine, under a carriage made for it by contractors Chs Côté & Co.

QUEBEC.

BRIDGE ON THE RIVER JACQUES-CARTIER, A VALOARTIER.

The assembly of the metal superstructure was completed on 24 January 1892. The tests and the reception were made on 2nd on January 7th when it was paid to the company called "The Dominion Bridge Co." "Entrepreneur of the book, a first account of \$ 9,000. After the completion of painting superstructure, in the course of the summer, the remainder of the contract price of \$ 910 was paid on August 16 for account balance.

The cost of the masonry was \$ 10,426.65 which the final payment of \$ 2126.65 was made on 81 December 1891. Some defective parts of riprap, damaged by ice during the debacle of last spring, have been repaired, the cost was about \$ 225.

RICHMOND.

BRIDGE ON THE RIVER ST-FRANCOIS, A 8ROMPTON FALLS.

By letter received March 31, 1892, Mr. F. G-. Ponton, secretary-treasurer of the municipality, calls for an inspection of the bridge, which he believes have certain defects. Her fears seem unfounded, however it will be done before winter inspection of this book.

ST-JEAN.

BRIDGE ON THE RIVER LITTLE MONTREAL, ST-LUC.

On behalf of the manufacturer of the metal superstructure, "The International Public Limited Company," Braine-le-Oomte, Belgium, ended January 11, 1892.

Settlement from the masonry is not done yet.

SHEFFORD.

BRIDGE ON THE RIVER BLACK, Roxton Falls.

The work of masonry which Mr. Lemoine was Frs entre

through the edge of the bridge was suspended at the same time because of the refusal of owners to take part in the execution of this work, in accordance with the commitment made by them.

The municipal administration, on the representations of the department, having finally assumed responsibility for the implementation of these commitments, the work was resumed in the month of October and are currently running.

The mounting foot lumber metal superstructure was started on 7 last pond and ended on 2 April.

April 20, a first A has \$ 3,000 was paid to the company "The Dominion Bridge Co.. The painting was executed in the month of June, and a second account of \$ 2.570 was paid to the company on August 16 for account balance.

TEMISCOUATA.

BRIDGE ON THE RIVER OF THE WOLF, ST-ANTONIN.

By decision of 6 August 1891, the Honourable Executive Board granted the request of interested parties and reduced their contribution to \$ 2,000. This decision was communicated on October 7. But they have abandoned the project to build a steel bridge, and they did replace the existing bridge with a new wooden bridge.

2nd PART.

EXPLANATORY on bridges which have not been mentioned in the previous general reports.

ARTHABASKA.

BRIDGE WARWIOK.

On 24 November 1891, Mr. J. E. Grirouard, MPP, on behalf of the municipality concerned, request an inspection be made by the government engineer to determine the preliminary assessments

No action was taken on that request.

BRIDGE ON THE RIVER OF THE WOLF, A CHESTER NORTH.

MM. Crépeau and Methot, lawyers, transmitted 11 June 1892 a request by interested parties to obtain government intervention in the cost of construction of this bridge.

This request went unanswered.

GASPÉ.

BRIDGE ON THE RIVER OF SMALL PABOS AT SMALL PABOS.

On 14 November 1890, Mr. Carrier, MPP, the Honourable Commissioner sends a request of the interested owners, requesting the government to build the bridge in question. The technical service without conducting a study on the spot where the bridge should be built, has collected a set of information to make preliminary assessments. Masonry work would cost approximately \$ 11,000. The cost of the superstructure would be about STJR GREAT BRIDGE LAKE OUTLET ST-JEAN.

By letter dated April 29, 1892, Joseph Girard, MPP, prays the Honourable Commissioner to instruct the government to engineer inspections and assessments.

According to the report of the engineer-director of technique, May 9, 1892 addressed to the Honourable Commissioner of Public Works, the construction of a steel bridge would not be justified. Good woodwork largely satisfy all requirements.

Copy of this report is distributed to interested parties May 20, 1892.

POBTNEUF.

MOWING "Dery" BRIDGE AND "RED" on the Jacques-Cartier, Ste-Jeanne de Neuville.

Request of the council of St. Jeanne de Neuville passed February 16, 1891 by Mr. Jules Tessier, MPP

Ordinary conditions communicated to stakeholders on 18 February.

DRAWN BY THE ENGINEER UNDERSIGNED

Quebec, October 30, 1892.
(Signed) EMERY LAFONTAINE.

SEEN AND SUBMITTED BY THE ENGINEER)
DIRECTOR UNDERSIGNED, [

Quebec, November 1, 1892. "

(Signed) GERALD Macquet.