

DEVELOPMENT OF THE NEW MONTREAL INTERNATIONAL AIRPORT

DREE

Department of
Regional
Economic
Expansion

OPDQ

Quebec
Planning and
Development
Bureau

DREE - OPDQ

CANADA - QUEBEC AGREEMENT

NEW MONTREAL

INTERNATIONAL AIRPORT

SPECIAL AREA

1971-1972 ACHIEVEMENTS
1972-1974 PROJECTS

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P R E F A C E

This book is intended to provide interested parties with a record of achievements and projects in the Special Area of the New Montreal International Airport, established by Amendment 6 to the Agreement on Special Areas dated March 25, 1971, and renewed on October 18, 1972.

Information on the objective, the contents and the elements produced are provided for each project; in addition, this document contains a complete bibliography of the reports prepared during the first year.

The Federal Department of Regional Economic Expansion (DREE) spent thirty (30) million dollars in contributions and ten (10) million dollars in loans to carry out these 1971-1974 projects.

The Quebec Government and several municipalities in the airport area also contributed towards the financing of the operations connected with these projects.

The programming of the activities carried out under the Agreement was the joint responsibility of several Quebec departments or organizations, of QPDB, and of DREE. The aim was to maximize the economic effects resulting from the construction of the New Montreal International Airport.

Four organizations, BANAIM, DREE, SATRA, and QPDB, all members of the Executive Committee provided for under the Agreement, exercised an overall supervision over the implementation of the projects.

C O N T E N T S

LIST OF 1971-1972 PROJECTS

<u>PROJECT DESCRIPTION</u>	<u>RESPONSIBLE AGENCY</u>	<u>AMOUNT</u>	<u>PAGE</u>
Airport industrial and commercial park (PICA)	Industry & Commerce (Quebec)	\$ 32,000	1
Reception of tourists at the airport site	Tourism, Fish & Game Department	91,000	4
Enlargement of the St-Jérôme filtration plant	Town of St-Jérôme	969,000	6
Enlargement of primary water reservoir, town of Lachute	Town of Lachute	683,000	7
Redevelopment of Oka park	Tourism, Fish & Game Department	783,000	9
Inventory and survey of historical monuments	Cultural Affairs Department	29,000	11
Development of the North river	Municipal Affairs Department	266,000	14
	Tourism, Fish & Game Department		
	Natural Resources Department		
Geoscientific survey	Natural Resources Department	273,000	18
Lighting of the Laurentian Autoroute (A-15)	Highways Department	1,586,000	20
Widening of highway 11 (117)	Highways Department	4,720,000	21
Widening of highway 41 (158) from Argenteuil County to the Laurentian Autoroute (A-15) (Excluding the village of St-Canut)	Highways Department	994,000	22

PROJECT DESCRIPTION	RESPONSIBLE AGENCY	AMOUNT	PAGE
Highway 640 from the Laurentian Autoroute to highway 65	Highways Department	\$5,249,000	24
Rebuilding of highway 8	Highways Department	771,000	26
Preparation of a new evaluation list for the town of Ste-Scholastique	Town of Ste-Scholastique	100,000	27
Technical assistance in the preparation of urbanization plans for the airport area	S.A.T.R.A.	440,000	29
Updating of land inventory in the airport area	Lands and Forests Department	813,000	32
Water main for downtown Lachute	Town of Lachute	352,000	36
Origin destination survey	Highways Department	120,000	37
Preparation of a master plan for sewage and water mains in the airport area	Quebec Water Board	250,000	40
Municipal services, Lachute industrial park	Town of Lachute	252,000	42
Highway 640 (from highway 65 to highway 25)	Highways Department	950,000	43
Regional incinerator Deux-Montagnes	Inter-municipal Corporation of Deux-Montagnes Sud	277,000	44

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THE PROJECTS

Airport Industrial and Commercial Park

(PICA)

OBJECTIVE:

To analyse the advisability of setting up an industrial and commercial park adjacent to the airport, to define the type of park and its characteristics and to create harmonious conditions for all the industrial parks of the region. The Quebec Department of Industry and Commerce (QDIC), with the financial assistance of the Department of Regional Economic Expansion (DREE), carried out an eight-point survey on the development concept and location of such a park.

DESCRIPTION:

The survey comprises the following elements:

1. A market survey (industrial, commercial and aerial) of the PICA and the existing industrial parks in the airport area.
2. Determination of the nature, role, scope and facilities of the airport;
3. Soil testing immediately to the south of the operational site of the airport and determination of three possible PICA sites.
4. Investigation of existing industrial parks in the airport area in order to determine their present circumstances, their potential and their spatial and financial growth possibilities;
5. Synthesis of the conclusions to the above-mentioned four points by the study steering committee;

6. Determination of the role of the PICA, its surface area, layout, costs-benefits and financing possibilities;
7. Determination of purpose and future trends with regard to existing industrial parks in the airport area and of the new parks which could be built;
8. Determination of the structure of the management and promotion organization which the PICA should have, the type of budget such an organization should be provided with and the promotional methods it should adopt.

The steering committee for the study is controlled by the QDIC and combines the following organizations: New Montreal International Airport Development Office (BANAIM), Regional Development Department of the Airport District (SATRA), along with DREE, DIC (Canada) and consultants.

ACHIEVEMENTS:

The overall cost of the study is currently estimated to be \$300,000. The Department of Regional Economic Expansion contributed \$32,000 towards the work carried out during the 1971-1972 financial year.

DOCUMENTS AVAILABLE:

<u>Title</u>	<u>Holder</u>
Determination de la nature, du rôle, de la vocation et des facilités de l'aéroport. (Programmes auxiliaires, BANAIM)	QDIC BANAIM
Extension des parcs industriels municipaux de la région aéroportuaire - Etudes physique et économique (Jean-Guy Duquet & Richard Thouin, PLJRAM Inc.)	QDIC
PICA - Rapport d'étude Analyse des expériences étrangères et propositions d'exploitation (Mai 1972 - Redma & Ass. Ltée)	QDIC
Rapport de l'estimation des capacités portantes (Normand Dion, ing.-cons.)	QDIC

RECEPTION OF TOURISTS

AT THE AIRPORT SITE

OBJECTIVE:

A survey undertaken by a consultant for the Department of Tourism, Fish and Game DTFG had the following main objectives:

- to obtain a more thorough understanding of the concept of reception in general and at the airport area in particular;
- to determine the nature and number of services which such a concept involves;
- to determine the geographical distribution of these services by optimizing their location;
- to determine the role to be played by the Department of Tourism, Fish and Game, the other public bodies involved and private industry.

DESCRIPTION:

These objectives were translated into five (5) survey phases, namely:

1. The concept of reception and associated policies
2. Market survey
3. Definition of the services to be offered
4. Location of the services
5. Analysis of the role and responsibilities of the organizations involved.

ACHIEVEMENTS:

The amount of the grant given by the Department of Regional Economic Expansion (DREE) for this work comes to \$91,000.

A final report was submitted to the DTFG during April, 1972 by the consultant and passed on to the Executive Committee for the Special Area during May, 1972.

DOCUMENTS AVAILABLE:

<u>Title</u>	<u>Holder</u>
L'accueil et l'aéroport Ste-Scholastique Final Report (Sorès, Inc.)	DTFG
L'accueil et l'aéroport Ste-Scholastique S Summary of Final Report (Sorès, Inc.)	DTFG

ENLARGEMENT OF THE ST-JEROME

FILTRATION PLANT

OBJECTIVE:

In order to increase the capacity of the drinking water filtration plant, so that the rapidly rising water requirements caused by the accelerated industrial development of the last few years can be met, while at the same time providing water for the airport, the Department of Regional Economic Expansion made a financial contribution to the project for enlarging the City of St-Jérôme filtration plant. As a result, its output will be raised from 3 to 6 million gallons daily.

DESCRIPTION:

In the main the project involves the following work:

- increased capacity of the primary water pumping station, of the pre-treatment and filtration installations;
- installation of a high-pressure pumping system to serve the industrial park.

ACHIEVEMENTS:

The work was started during August, 1971 and in February, 1972 it had reached a sufficiently advanced stage for the new plant to be officially inaugurated. The Town of St-Jérôme Municipal Council accepted the work included in the \$1,070,800 contract in April. The contribution by the Department of Regional Economic Expansion towards this project amounted to \$969,000.

ENLARGEMENT OF PRIMARY WATER RESERVOIR

TOWN OF LACHUTE

OBJECTIVE:

Within the scope of a programme of priority equipment for the town of Lachute, a dammed reservoir was adopted from one of the projects put forward concerning the supply of drinking water. This project involves the construction of a dam and the enlargement of the filtration plant on the water supply side, a fresh-water reservoir and a water main on the distribution side. Building the dam represents the first stage in this sector of the programme, which is intended to allow the municipality to meet its regional commitments and to satisfy future requirements. The work involved will raise the daily output from 2 million to a steady 7.5 million gallons of water daily. In particular it eliminates the inconvenience caused to vacationers by the drop in the water level in the surrounding lakes during the summer period.

DESCRIPTION:

The project includes the building of an arched dam of a total length of 533 feet and a maximum height of 70 feet. The arched section of the dam, which abuts against the rocky north bank of the William River, is 307 feet long, followed by a 60-foot abutment and a 166-foot buttress. The dam is located on the William River between Sir John and William Lakes. Deforestation work, soundings and technical surveys are also included in the project.

ACHIEVEMENTS:

The dam is now in use, the civil engineering work having been carried out by the firm of Hilaire Binette Construction. The grant given by the Department of Regional Economic Expansion towards this work came to \$683,000.

REDEVELOPMENT OF OKA PARK

OBJECTIVE:

Participation of the Department for Regional Economic Expansion in the redevelopment work at the Paul Sauve park (Oka) followed a request by the Department of Tourism, Fish and Game with regard to the development of this provincial park, one of prime importance for the Montreal region.

The first stage had the following aims:

- to complete the development of the park's infrastructure in accordance with its present surface area;
- to limit access to the park to a predetermined number of visitors in order to reduce the risk of damage to the grounds to a minimum;
- to increase the number of visitors to the park during slack periods, especially during spring and autumn, by promoting such activities as study "green" and "white" classes.

DESCRIPTION:

This project involves the building of administrative and operational premises and the conversion of the camping sites in the "Refuge" sector into trailer parks.

ACHIEVEMENTS:

The contribution by the Department of Regional Economic Expansion during the financial year 1971-1972 amounted to \$783,000, which takes into account the work done up to March 31, 1972, namely:

- Administration office (reception and administration centre);
- Depot for use also as garage and workshop;
- House for personnel;
- Check-point hut;
- Protective wall for the beach;
- Service centre (laundry);
- Nature interpretation centre;
- Restaurant;
- Development of 146 camping sites for trailers, complete with sewage, water and electricity supplies.

INVENTORY AND SURVEY OF
HISTORICAL MONUMENTS

OBJECTIVE:

In view of the fact that the possibilities for the development of the region north of Montreal have been enhanced by the creation of the NMIA and that the existing environment is likely to undergo rapid and far-reaching changes, it was considered urgent for a survey to be undertaken of the region with regard to the sites and monuments of historical or architectural interest. The intention was to prevent the changes associated with the development from "preserving the cultural and artistic heritage."

DESCRIPTION:

In order to preserve and enhance the existing heritage, the Department of Cultural Affairs undertook to make an inventory and to carry out a survey of the old buildings throughout the airport region. This project comprises two (2) phases, namely:

1st phase:

- speeding up the project for a general inventory being undertaken by the Department for Indian Affairs;
- amendment of the inventory for the entire special zone.

The "inventory" phase resulted in the identification of 2,000 old buildings. The associated document contains the description, location and primary classification of these buildings.

The results of the "analysis" phase will be included in the final report; the preliminary version of this report entitled "Programme de préservation et de mise en valeur des bâtiments anciens" (programme for the preservation and exploitation of old buildings was handed over to the Executive Committee of the special NAIM area. An audio-visual feature will accompany the final report.

DOCUMENTS AVAILABLE:

<u>Title</u>	<u>Holder</u>
"Inventaire des bâtiments anciens" (Histart Inc.)	- SATRA (Montreal) - Dept. of Cultural Affairs (Quebec)

2nd phase:

- analysis of the inventory;
- identification of the points of interest and qualitative classification;
- definition of the compatibilities between the development programmes and the preservation of places considered to be of cultural interest;
- programming of a legislative type of implementation policy.
Integration of the programme for relocating the buildings from the expropriated land into the general programme for the Special Area.

- setting up of services within the municipalities responsible for supervising the use and transformation of the buildings identified, in accordance with a pre-arranged enhancement programme.

ACHIEVEMENTS:

The two (2) phases were entrusted to the firm of Histart Inc. and required the financial contribution of \$29,000 by the Department of Regional Economic Expansion.

DEVELOPMENT OF THE NORTH RIVER

OBJECTIVE:

In order to rationalize the investments required for the development of the North River, the Department of Regional Economic Expansion took part in the preparation of an overall plan for exploiting the recreational possibilities of the North River valley within the Special Area. Such an exploitation is linked with the quality of the water and control of the flow. A technical committee for the development of the North River was set up by the Executive Committee of the Special Area. This technical committee combined the following responsible agencies: the Department of Tourism, Fish and Game, the Department of Natural Resources and the Department of Municipal Affairs represented, by the Water Board and the Quality of the Environment Service.

DESCRIPTION:

The responsible agencies defined the following objectives for the project within the framework of the programme drawn up by the technical committee:

1. Department of Tourism, Fish and Game

- * Exploitation of the recreational possibilities of the valley of the North River from St-Jérôme to its mouth.
- Analysis of the supply and demand;
- Special analysis of the problems involved with regard to administration and jurisdiction;
- Proposals for development.

2. The Department of Natural Resources - Quebec Water Board

- * Quantitative studies.
- Inventory of present and future water needs;
- Optimization of existing control and development of new reserve by preparing a mathematical model of the hydraulic and hydro-graphic system of the North River basin;
- Study of floods and development of plains;
- Study of erosion and sedimentation;
- Limnological analysis.

3. The Department of Municipal Affairs (DMA)

A) Water Board

- * Qualitative study of the water of the North River and preparation of a programme for municipal and industrial elimination of pollution.
- Inventory of certain present and future water needs;
- Study of the sources of pollution;
- Collection of quantitative and qualitative data on future waste water;
- Sectorial classification of the North River waters;
- Preparation of a programme for the elimination of pollution.

B) Quality of the environment

- Elimination of pollution in touristic areas: public beaches, camping grounds and holiday camps, hotels and motels;
- Drinking water;

- Solid waste;
- Small built-up areas.

ACHIEVEMENTS:

The Department of Regional Economic Expansion contributed \$266,000 towards this work, distributed as follows between the three (3) responsible agencies:

Department of Tourism, Fish and Game	\$ 96,000
Department of Natural Resources	\$100,000
Department of Municipal Affairs	\$ 70,000

A report in the form of a synthesis will be submitted in the near future to the Executive Committee of the Special Area by the technical committee for the development of the North River.

DOCUMENTS AVAILABLE

<u>Title</u>	<u>Holder</u>
"Aménagement récréatif de la Rivière du Nord" (Gaetan Richard, town planner)	DITFG
"Inventaire des besoins actuels et futurs en eau"	DNR
"Etude de régularisation de la Rivière du Nord" (Groleau, De Guise & Ass., consultants)	DNR
<ul style="list-style-type: none"> - Analysis of existing hydrological system - Development of new reservoirs 	
"Etudes des inondations et mise en valeur des plaines"	DNR

<u>Title</u>	<u>Holder</u>
"Etude de l'érosion et de la sédimentation"	DNR
"Etudes de redevances payées au MRN"	DNR
"Analyse limnologique"	DNR
"Etudes des Plages" (Environment Service)	DMA
"Etude des colonies de vacances et terrains de camping" (Environment Service)	DMA
"Etude des hôtels et motels" (Environment Service)	DMA

GEOSCIENTIFIC SURVEY

OBJECTIVE:

The geoscientific study programme for the Montreal North area is designed to examine certain scientific aspects of this region which, because of its geographic location around the site of the new international airport, will undergo considerable economic expansion during the next few years. This project is intended to contribute towards the knowledge of the nature and quality of the soil of the airport region, as a prerequisite to the rational development of the area.

DESCRIPTION:

At the suggestion of the organizations involved (SATRA, BANAIM) the following scientific aspects were considered:

- a) geology of loose deposits
- b) mapping of bedrock
- c) economic geology (inventory of industrial and metallic minerals)
- d) geotechnical survey (delimitation of stable areas)
- e) Hydrogeology (inventory and evaluation of groundwater resources).

ACHIEVEMENTS:

The work was undertaken jointly by the Geological Survey of Canada and the Quebec Department of Natural Resources; the Department of Regional Economic Expansion contributed financially to this work by adding a sum of \$273,000 to the funds allocated by the two above-mentioned organizations; this sum was intended to cover the cost of drilling and additional personnel.

DOCUMENTS AVAILABLE

These documents take the form of maps with the following titles:

<u>Title</u>	<u>Holder</u>
Coupe des Sondages (1 to 208)	DNR
Localisation des forages profonds et peu profonds	DNR
Topographie du socle rocheux	DNR
Epaisseur du mort-terrain	DNR
Dépôts de surface	DNR
Dépôts de surface et stratigraphie	DNR
Géologie et topographie du socle rocheux	DNR
Géotechnique	DNR
Sols instables	DNR
Localisation des puits et forage (Hydrogeology section)	DNR
Epaisseur des terrains non consolidés et hydrochimie (Hydrogeology section)	DNR
Mechanographical maps - 1:25,000	GSC

for the following physical characteristics:

type of material, ph value, distribution of
clays, thickness of clays, topography of bedrock,
carbonate content, plasticity index, porosity.

LIGHTING OF THE LAURENTIAN

AUTOROUTE (A-15)

OBJECTIVE:

Participation by the Department of Regional Economic Expansion is aimed at the following two objectives:

- improvement of the safety level;
- increasing the volume of traffic so that the autoroute can become a priority access road to the airport.

DESCRIPTION:

This lighting project between the Thousand Island River and St-Jérôme forms part of an investment programme by the Office des Autoroutes, which will supply the lighting for the entire Laurentian Autoroute.

The following physical work was required:

- installation of 1,400 lamp-posts, 31 feet high, at intervals of 120 feet;
- burying 360,000 feet of cable;
- installation of luminaires with yellow light low-pressure sodium lamps.

ACHIEVEMENTS:

This project is almost completed: only the final connections with the Hydro system remain to be made and the removal of the temporary lamp-posts at the autoroute exits. The contribution made by the Department of Regional Economic Expansion towards the work carried out up to March 31, 1972 amounted to \$1,586,000.

WIDENING OF HIGHWAY 11 (117)

OBJECTIVE:

The work required to widen highway 11 (117) is intended to provide access to the airport via a better quality, toll-free road. The improvement of this highway will make road communication easier between the NMIA and the surrounding region, besides improving the regional road network.

DESCRIPTION:

This work, which qualified for a contribution from the Department of Regional Economic Expansion, involved improvements at the following points:

- Ste-Thérèse to Rosemère: widening of 3.14 miles of highway;
- Blainville: rearrangement and widening over a distance of 4.4 miles, also associated works such as traffic lights, leveling, turfing, etc.;
- St-Antoine des Laurentides: widening of a road bridge over the CN railway lines;
- Ste-Scholastique: provision of reinforcement on marshy ground along the edge of highway 11 over a distance of 1,200 feet.

The contribution by the Department of Regional Economic Expansion towards the work completed on March 31, 1972 amounted to \$4,720,000.

WIDENING OF HIGHWAY 41 (158)

from Argenteuil County to the Laurentian Autoroute (A-15)

(Excluding St-Canut village)

OBJECTIVE:

Improvement and widening of highway 41 (158), which links the towns of Lachute and St-Jérôme, will make a first-class highway available between these two poles of the airport region. This work fulfills the objective for improving the regional road communications in the vicinity of the new airport.

DESCRIPTION:

The work undertaken in 1971-72 as part of an improvement programme for highway 41 included two sections of the overall project, which also involved by-passing St-Canut and the section of highway 41 between the autoroute and St-Antoine des Laurentides. The first section linking highway 15 and the village of St-Canut, a distance of 3.47 miles, follows a new layout on a 120-foot wide strip. The second section between St-Canut and the boundary of Argenteuil County was rebuilt and the width of land purchased increased the right-of-way to 120 feet; this section is 5.6 miles long. In each case the pavement is 24 feet wide with 10-foot wide shoulders on each side.

ACHIEVEMENTS:

The Department of Regional Economic Expansion contributed the sum of \$994,000 towards the work completed on 31 March 1972, i.e. 50% of the total cost of the work for the two above-mentioned sections, which are due to be finished in 1972-73.

HIGHWAY 640

(from the Laurentian Autoroute to highway 65)

OBJECTIVE:

Construction of highway 640 from the Laurentian Autoroute to highway 65 was adopted as part of the programme for the special area of the new airport; the aim was to provide an east-west link between the airport and the North Shore highway (40). This project contributes towards the creation of a major east-west artery within the regional road network.

DESCRIPTION:

The project can be broken down as follows:

- construction of the civil engineering for the interchange connecting the Laurentian Autoroute (15) and the new highway 640;
- construction of five miles of highway between autoroute 15 and highway 65;
- overpass section above the Canadian Pacific tracks in the municipality of Bois des Filion;
- construction of a road bridge across highway 640 at the Boulevard de Gaulle cross-roads in the town of Lorraine.

ACHIEVEMENTS:

Construction of the viaducts provided for under this project is complete but the highway is only about half finished.

The Department of Regional Economic Expansion contributed \$5,249,000 towards the work carried out before 31 March 1972.

REBUILDING OF HIGHWAY 8

OBJECTIVE:

Participation of the Department of Regional Economic Expansion in this work was provided for the purpose of improving the regional road network in the vicinity of the new Montreal international airport.

DESCRIPTION:

The work included leveling, foundations and pavement works on a section (2.98 miles) of highway 8 within the municipality of Ste-Scholastique.

ACHIEVEMENTS:

The contribution by the Department of Regional Economic Expansion for the work carried out up to 31 March 1972 came to \$771,000 and covers the entire project.

PREPARATION OF A NEW EVALUATION LIST
FOR THE TOWN OF STE-SCHOLASTIQUE

OBJECTIVE:

Since the main duty of any municipality is to provide the services which fall within its jurisdiction throughout the area for which it is responsible, the new town of Ste-Scholastique - which grouped together fourteen municipalities - had to devise the fairest possible method of taxation. In this connection, the new evaluation list assumed major importance, because the old lists, which were far from standard and had often been drawn up in an amateurish manner, could not even serve as a starting point. This project was intended to provide the new town of Ste-Scholastique with the vital taxation tools, the main one involving the assessment based on land and building value.

DESCRIPTION:

Preparation of the new evaluation list for the town of Ste-Scholastique comprised two parts:

- definition of the land and buildings;
- assessment of the actual value.

The project also includes the recording of such data on magnetic tape.

ACHIEVEMENTS:

Preparation of this standard evaluation list required the participation of the Department of Regional Economic Expansion with a subsidy of \$100,000. The work was carried out by the firm "Les Estimateurs Professionnels Leroux, Beaudry, Picard & Ass. Inc." and involved the compilation of 4,800 evaluation cards, a consolidated evaluation list and 164 tax maps covering the fourteen municipalities affected by the law which created the town of Ste-Scholastique.

All the information collected was stored on magnetic tape.

DOCUMENTS AVAILABLE:

<u>Title*</u>	<u>Holder</u>
Rôle d'évaluation	Town of Ste-Scholastique
Fiches d'évaluation	" "
Plans d'évaluation	" "

*Evaluation list, cards and maps.

TECHNICAL ASSISTANCE IN THE PREPARATION
OF URBANIZATION FOR THE AIRPORT AREA

OBJECTIVE:

The Department of Regional Economic Expansion took part in this project controlled by the Regional Development Department of the Airport District (SATRA) with the aim of improving the efficiency and introducing new methods into the management of public affairs. This proposal formulated by SATRA is intended to provide municipalities with the know-how required to improve their decision making and to make their master plans and other planning instruments for the area more efficient from the point of view of both planning and management.

DESCRIPTION:

The programme comprises six major analysis and study elements to be implemented in two successive financial years, namely 1971-72 and 1972-73:

1. Inventory of the legislative and administrative processes available to municipalities and municipal communities as part of a concerted regional action.
2. Preparation of standard estimates for the preparation of municipal master plans.
3. Analysis and evaluation of resources and use of municipal resources.

4. Organization and implementation of an urban and regional information centre.
5. Assistance towards the organization and operation of the advisory development departments.
6. Collection of basic data.

ACHIEVEMENTS:

The Department of Regional Economic Expansion contributed \$440,000 during the financial year 1971-72 towards implementation of the first phase.

In addition to the documents listed below, attention is drawn to the fact that the collection of basic data enabled an accompanying document, in the form of a magnetic tape, to be produced. This tape (9 tracks, 1600 B.P.I., 2,400 feet) records the inventory of the physical and human resources of the municipalities, i.e. population, use of the land, occupancy of buildings, living conditions and availability of dwellings.

A regional atlas made up of maps to a scale of 1:100,000 was also compiled. This atlas illustrates the physical features and phenomena with physical characteristics throughout the airport region; a descriptive text in the two official languages is included.

DOCUMENTS AVAILABLE:

<u>Title</u>	<u>Holder</u>
Etude des ressources actuelles des municipalités de la région aéroportuaire (Partie I) (Raymond, Chabot, Martin, Paré & Ass.)	SATRA
Etude de l'utilisation des ressources municipales de la région aéroportuaire (Partie II) (Raymond, Chabot, Martin, Paré & Ass.)	SATRA
Centre d'information urbaine et régionale Volume I - Rapport final (Demers, Gordon, Baby Ltée)	SATRA
Centre d'information urbaine et régionale Volume II - Rapport final	SATRA
Instrumentation d'urbanisme - Première Partie Contexte, Objectifs et Notions diverses/Mars 1972	SATRA
Un Territoire - (Atlas géographique de la région du N.A.I.M.)	SATRA

UPDATING OF LAND INVENTORY IN

THE AIRPORT AREA

OBJECTIVE:

The cadastral survey, being a public register of buildings, must be accurate and up-to-date if full use is to be made of it for real estate transactions, estimates and plans of various public services, etc. The objective of this project is to develop a complete, integrated cadastral documentation for the airport district, which involved compiling a cadastral survey of 18,000 original lots and 2,500 parcels in the town of Ste-Scholastique.

DESCRIPTION:

The estimate for the work comprised:

- cartographic coverage of the special area, namely 43 maps to 1:10,000;
113 ortho-photo maps to 1:1,000 of 9 municipalities (St-Eustache, Oka, Pointe-Calumet, Deux-Montagnes, St-Hermas, St-Placide, St-Benoît, St-Joseph-du-Lac and St-Canut);
- setting up of geodetic networks with
9 primary points and
420 secondary points

- compilation of original surveys, programming and calculation in order to correct the reference registers;
- data processing.

ACHIEVEMENTS:

A sum of \$813,000 contributed by the Department of Regional Economic Expansion within the framework of the Canada-Quebec Agreement for special areas was available to the responsible agency, namely the Department of Lands and Forests, for the implementation of various items of the project.

The 429 geodetic stations have been set up and a list of their location has been distributed to users.

Aerial photography enabled maps to 1:10,000 and 1:1,000 to be prepared, as mentioned above, with the exception of the municipalities of St-Canut and St-Hermas, where mosaics replaced the ortho-photo maps.

Updating the cadastral survey led to the creation of 2,875 new lots in the municipality of Ste-Scholastique. Moreover, the cadastral survey on 1:10,000 and 1:1,000 sheets is complete.

Finally, data processing of the revision of the reference register has reached the calculation stage for the cadastral information and storage of the data; before proceeding further, the responsible agency intends to investigate the possibility of setting up a card index system with access to users, thus providing a link with the various indices of the public organizations.

DOCUMENTS AVAILABLE:

<u>Title</u>	<u>Holder</u>
List of geodetic points	DLF

Sheets 31 G/8, 31 G/9, 31 G/16
31 H/5, 31 H/12, 31 H/13

Location cards for the geodetic points in the above-mentioned sheets, also for the following municipalities: St-Eustache, Lachute, Terrebonne, St-Jérôme and Ste-Scholastique (DOT)

Maps available to 1:1,000 and 1:10,000 as indicated on maps attached.

Government of Quebec - Department of Lands and Forests

PHOTOGRAMMETRY AND CARTOGRAPHY SERVICE

File P 42-71

Ortho 1:10,000 - 5m

300,160 acres

Contractor: Gendron et Lefèbvre

PHOTOGRAMMETRY AND CARTOGRAPHY SERVICE

Ortho-photographic map project - 1:1,000

Remplacé par mosaïques - replaced by mosaics

Department of Lands and Forests

P. 82-71 - P. 95-71

Contractor: Michel Sicé

Standard map: 1:10,000 - 2.5 m

WATER MAIN FOR
DOWNTOWN LACHUTE

OBJECTIVE:

During the last few years, the town of Lachute arranged for the construction of part of a 16" water main between the filtration plant and the "east" end of town, followed by another part in the "west" end. The distribution system had therefore to be connected by means of a new main through the downtown area. Construction of this main had become necessary because of the arrival of new industries in the "west" sector and also to provide an adequate system for existing users and factories.

DESCRIPTION:

The work involves laying a new 16" main over a distance of 6,700 feet, together with the necessary connections to the transverse streets.

ACHIEVEMENTS:

The Department of Regional Economic Expansion contributed a sum of \$352,000 for the water main, while the municipality undertook to install a new sewage pipe amounting to \$247,000.

ORIGIN - DESTINATION SURVEY

OBJECTIVE:

This traffic, transport and tourism survey in the airport area was intended to record the movements of the various types of vehicles within and outside the region in order to provide the information required to plan regional transport. The specific aims of this survey can be broken down as follows:

- to establish the major movement trends;
- to define the relationship which exists between the volume of movements and socio-economic factors (population density, average annual income, etc.);
- to analyse movements as a function of their purpose;
- to prepare and calibrate the mathematical models which enable future movements to be evaluated;
- to determine the movements involving freight by road in the area in question (nature, quantity and rate of utilization of trucks);
- to determine leisure movements, including the type of accommodation and the length of stay.

DESCRIPTION:

The programme under consideration involved interviews, manual classifications, automatic census taking, coding of interviews, card punching and mecanographical analyses.

ACHIEVEMENTS:

This project required the setting up of sixteen census stations at the boundaries of the airport area and resulted in 80,000 interviews.

The project was carried out by the firm of Ewart, Tremblay & Ass. with the Department of Highways as responsible agency. The Department of Regional Economic Expansion contributed \$120,000 towards implementation of the project.

DOCUMENTS AVAILABLE:

Title

Holder

Enquête Origine-Destination

Highways Dept.

Région "Annexe B"

Territoire du nouvel aéroport

international de Montréal

Avril 1972 (including Appendix A & B)

Enquête Origine-Destination

Highways Dept.

Région "Annexe B"

Territoire du nouvel aéroport

international de Montréal

Appendix C - April, 1972

PREPARATION OF A MASTER PLAN FOR SEWAGE
AND WATER MAINS IN THE AIRPORT AREA

OBJECTIVE:

This project is intended to prepare regional plans for the supply of drinking water, for the treatment of waste water and the drainage of surface water at the poles and along the axes of the airport area due to be developed in the near future.

DESCRIPTION:

The survey enabled an evaluation to be made of the present operation of systems, data to be analysed with regard to actual and possible supply of drinking water and the disposal of both waste and surface water, various alternatives to be put forward, and finally the master plan to be worked out accordingly. The studies involved three sectors, namely the east-west axis from Terrebonne to St-Eustache via Ste-Thérèse, the urban area of St-Jérôme (including the airport) and the urban area of Lachute.

ACHIEVEMENTS:

The responsible agency, the Quebec Water Board, entrusted the work to a senior consultant, namely Lalonde, Valois, Lamarre, Valois & Associés

Ltée; the total cost of the survey came to \$475,000, to which the Department of Regional Economic Expansion contributed a grant of \$250,000.

It is expected that the final report will be submitted in November, 1972; it will contain the following documents, which cover the above-mentioned three sectors:

- Volume I: General basic data (physical milieu, demography and zoning, drinking water requirement, disposal of waste waters and costs);
- Volume II: Master plan - drinking water (inventory of existing equipment, calculation criteria, methodology, description of alternatives considered, hydraulic and economic analyses and master plan);
- Volume III: Master plan - waste waters (inventory of existing equipment, combined vs individual sewers, calculation criteria, methodology, description of the alternatives considered, hydraulic and economic analyses and master plan);
- Volume IV: Master plan - surface waters (inventory of existing equipment, special studies, calculation criteria, methodology, description of alternatives considered, hydraulic and economic analyses and master plan).

MUNICIPAL SERVICES

LACHUTE INDUSTRIAL PARK

OBJECTIVE:

This project allows for financial assistance to the Lachute municipality, needed to build an industrial park close to its airport, by covering the cost of the infrastructures for the park's industries. This work contributes towards the consolidation of the industrial part to be played by the town of Lachute within the Montreal North subregion area.

DESCRIPTION:

Implementation of this new industrial park with a surface area of some 300 acres required the provision of the following services: 800 feet of domestic sewers, 2,700 feet of surface drains and 3,500 feet of water mains. An access road to the park, Bradford Street, with a length of about 2,000 feet, was also built as part of this programme.

ACHIEVEMENTS:

The Department of Regional Economic Expansion contributed \$252,000 to the town of Lachute for the construction of these infrastructures in the industrial park.

HIGHWAY 640

(from highway 65 to highway 25)

OBJECTIVE:

This project forms part of an overall programme for the building of highway 640 from the Laurentian Autoroute to the North Shore highway (40). The aim of the project is therefore to contribute towards the provision of an important east-west artery within the regional road network.

DESCRIPTION:

The work involves the construction of the second laneway of highway 640 together with interchanges between highway 65 and highway 25, a distance of 9.21 miles. This project represents an addition to the original contract granted by the Highways Department for the construction of the other laneway.

ACHIEVEMENTS:

The subsidy granted by the Department of Regional Economic Expansion for the 1971-72 financial year amounted to \$950,000, a sum which covers about half the estimated cost of the work for the second laneway, as estimated.

REGIONAL INCINERATOR

DEUX-MONTAGNES SOUTH

OBJECTIVE:

Faced with a waste disposal problem, six municipalities in the southern part of Deux-Montagnes County combined to examine proposals likely to improve the situation. The Inter-Municipal committee set up for the purpose unites the municipalities of St-Eustache, Deux-Montagnes, Oka, Ste-Marthe-sur-le-Lac, St-Joseph-du-Lac and Pointe Calumet. As a result of this consultation, it was decided that incineration should be selected as the method for waste disposal.

This project for the building of an incinerator should enable the six municipalities to organize the disposal of solid waste on a regional basis. Moreover, the method complies with requirements for the protection of the environment in a sector of the airport area which is due to experience an accelerated demographic growth.

DESCRIPTION:

The project includes the construction of a building for waste storage, installation of the incinerator machinery by the firm of Trecan

Ltée, building of an access road and purchase of the equipment required to transfer the refuse from the storage building to the incinerator.

ACHIEVEMENTS:

Estimates of the total cost of the project, including acquisition of the land, came to about \$350,000. The Department of Regional Economic Expansion contributed \$277,000 towards the building of the regional incinerator under the Canada-Quebec Agreement on Special Areas.

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103 pp.
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78 pp. + annexes
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34 pp. + annexes
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18 pp. + annexes
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162 pp.
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Septembre - octobre 1971
10 pp.
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* MAM
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municipales de la région
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193 pp.

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Volume I - Rapport final

15 mai 1972, 86 pp.

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Contexte, objectifs et notions
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Répertoire des points géodésiques

Feuillets 31 G/8, 16 pp.

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* Holder

Ewart, Tremblay
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Enquête Origine-Destination
Région "annexe B"
Territoire du nouvel aéroport
international de Montréal
Avril 1972 (incluant appendice A & B)
158 pp.

* MINISTERE DE LA VOIRIE

Ewart, Tremblay
& Associés

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Avril 1972 (Appendice C)
225 pp.

* MINISTERE DE LA VOIRIE

UPCOMING:

Régie des eaux

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* MAM

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Les Estimateurs Professionnels
Leroux, Beaudry, Picard
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* Ville de Ste-Scholastique

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Novembre 1971, échelle 1"=10'
* MRN

Localisation des forages profonds
et peu profonds
Avril 1972, échelle 1:50,000
* MRN

Topographie du socle rocheux
Avril 1971, échelle 1:50,000
* MRN

* Holder

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Avril 1971, échelle 1:50,000

* MRN

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Avril 1971, échelle 1:50,000

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Dépôts de surface et stratigraphie

Avril 1971, échelle 1:50,000

* MRN

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Planche 1, avril 1971, échelle 1:50,000

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Avril 1971, échelle 1:50,000

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* Holder

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* MTF

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ANNEX A

DESCRIPTION OF 1972-1974 PROJECTS

NEW MONTREAL INTERNATIONAL AIRPORT

SPECIAL AREA

Project 1972-74

Brief Description

1- Projects of the Department of Highways (regional road network)

Lighting Autoroute
A-15 (completion)

Installation of a road lighting system on Autoroute A-15 from Ste-Thérèse to St-Jérôme, that is on a distance of 15.8 miles. The total cost of this project amounts to \$1,767,000; in 1971-72 an amount of \$1,586,000. was spent. In 1972-73, a grant of \$181,000 will be used to complete this project.

Widening of route 11
(117) (completion)

Widening of Road 117 from three to four traffic lanes on a distance of 9.8 miles, from the Thousand Island River to St-Janvier. The total cost of the project amounts to \$5,288,000.; in 1971-72, the Agreement provided \$4,720,000. while the Dept. of Highways contributed \$237,000. In 1972-73, grants in the amount of \$331,000. will be provided under the Agreement for the completion of these works.

Widening of route 117
in Ste-Scholastique

Widening of Road 117 from three lanes to two 2 - lane roadways on a distance of 4.4 miles. This project will be financed through an amount of \$2,000,000. in loans from the Agreement.

Widening of route 117
(St-Antoine to St-Jérôme)

Widening of Road 117 from three to four traffic lanes on a distance of 1.14 miles. This project will be financed with \$810,000. in loans from the Agreement.

Autoroute 640 from A-15
to route 65 (completion)

Construction of a four-lane
road portion on a distance
of 4.6 miles, between Road
A-15 and Road 65.

The total cost of the project
amounts to \$9,605,000.; in
1971-72, \$5,249,000. on a grant
basis were provided under the
Agreement while the Department
of Highways contributed \$284,000.
In 1972-73, the Agreement will
contribute an amount of \$4,072,000.
(\$3,072,000 in grants).

Autoroute 640 (from
route 65 to route A-25)
(completion)

Construction of an autoroute
portion comprised of two 2 -
lane roadways. The federal
contribution includes only the
cost of one of these two roadways.
The project covers a length of
9.2 miles, from Road 65 to
Roas A-25, including 5.7 miles
within the special area.

The total cost of the project
amounts to \$2,360,000. whereas
the cost of the portion within
the special area totalizes
\$1,652,000. In 1971-72,
\$950,000. were provided under
the Agreement while the Dept.
of Highways contributed \$95,000.
In 1972-73, the Agreement will
provide for \$607,000. in grants
for the completion of the portion
within the area.

Rebuilding of route 41
(excluding St-Canut
Village) (completion)

Reconstruction of Road 41 (158)
on a distance of 9.1 miles, that
is 3.5 miles on the east side
of St-Canut and 5.6 miles on the
west side. The pavement width
on the new standard section of
the road will have 24 feet. The
new alignment as well as the
profile will be designed for a
50 mph speed.

The total cost of the project
amounts to \$2,111,000.; in 1971-72,
\$994,000. were provided under the
Agreement. In 1972-73, grants
in the amount of \$117,000. will

Rebuilding of route 41
(St-Canut Village)

Reconstruction of Road 41 on a distance of 3.0 miles. The pavement width on the new standard section of the road will have 24 feet. The new alignment as well as the profile will be designed for a 30 mph speed.

The total cost of the project, that is \$800,000. in loans, will be provided under the Agreement.

Overpass on autoroute
A-640 at route 65

Construction of a four-lane overpass above road A-640, consisting of a 43-foot wide and 363-foot long structure.

The total cost of the project, that is \$360,000. in grants, will be provided under the Agreement.

Continuation of Autoroute
A-640 to Oka

Construction of 5.6 miles of Road A-640, from the CN line eastwards to Road 29 to Oka Park. This freeway comprises two 2-lane roadways.

The total cost of the project amounts to \$7 million. The contribution under the Agreement will be \$1,500,000. in loans.

Study of rapid transportation system - Montreal - Ste-Scholastique

This project will include a market study, a study of the various transportation systems suggested in relation with equipment as well as layouts and a study on the impact of such a project. The project is aimed at promoting the economic integration of the Montreal International Airport and the northern region to the Montreal community by developing a main transportation and communication axis between the airport and downtown Montreal.

The estimated cost of this project amounts to \$400,000.

The Agreement will provide for \$300,000. on a grant basis.

2- Projects of provincial departments

Updating of land inventory (phase II)

A basic knowledge of the territory, more precisely, of its division is fundamental for any infrastructure development, municipal assessment, expropriation, land improvement and adjustment. Within the limits of the NMIA special area, data pertaining to the territory division are rather confusedly recorded while no graphic representation exists except for approximately one third of the parcels appearing on the cadastral plan.

The Quebec Department of Lands and Forests will complete the cadastral inventory revamping project undertaken in 1971-72. The Agreement provided for grants in the amount of \$813,000. to undertake this project in 1971-72. Grants in the amount of \$350,000. will be made available under the Agreement to complete this project in 1972-73.

Study for the installation of the airport industrial park

The creation of an airport-based industrial and commercial park (PICA) endowed with all services in Ste-Scholastique would be liable to interest the industrialist having international or inter-provincial investment projects. Such a park, in addition to be a land reserve easily accessible for enterprises already established in Quebec, would constitute an efficient promotion instrument as far as "foreign investors" are concerned and would have a favourable snowballing effect on surrounding industrial

parks. The project will permit to determine the best location for this industrial park, to identify the potential clients, to define the services to be offered and to determine the area to be covered.

In 1971-72, grants in the amount of \$32,000. were provided under the Agreement to undertake this project. In 1972-73, additional grants in the amount of \$270,000. will be allocated to complete works already in progress. The Department of Industry and Commerce is the responsible agency for this project.

Geoscientific study
(completion)

A qualitative and quantitative knowledge of surface deposits as well as mechanical and physical parameters of their components is essential to the planning and the development of the territory. The purposes of the project will be attained through the following works: stratigraphic borings to complete works undertaken in 1971-72; hydro-geological borings and establishment of control points; geo-technical borings in designed sectors that will permit to specify the future use of these soils.

In 1971-72, an amount of \$273,000. in grants was provided under the Agreement. To complete these works, additional grants of \$285,000. will be allocated in 1972-73.

These works will be carried out jointly by the Geological Survey of Canada and the Quebec Department of Natural Resources.

Master plan for sewage
and water mains (completion)

This study is aimed at preparing integrated regional master plans for the main communities of

the territory. These plans will be used to plan the investments in the water sector during the next years and will be part of the master plans to be prepared by each municipality under Bill 60.

In 1971-72, the Agreement provided an amount of \$250,000 in grants and the Quebec Water Board \$225,000. to carry out this work. In 1972-73, grants of \$55,000. will be allocated under the Agreement to complete this project with a total cost slightly higher than anticipated.

The Quebec Water Board is the responsible agency for this project.

Information Center,
Operation of data bank
and publications (completion)

In 1971-72, within the framework of project "Town planning for the airport area" financed through the Agreement, SATRA completed a data bank project on the characteristics of the enterprises, the institutions and the population of the airport area.

Furthermore, SATRA carried out a study on the municipalities' information needs for the purpose of preparing master plans and assuming municipal management.

Through this project, the following objectives will be attained: on the municipalities and municipality groups request, to produce the information documents, statistical tables, analyses and calculations required to prepare intermunicipal and municipal master plans; to insure a permanent information flow and data bank use for the purposes of municipal management and planning.

Study on regrouping of regional services (police, fire-fighting, evaluation, sanitation) and problem areas (inondations, sand-pits)

The establishment of the airport implies the implementation of a high quality municipal services network which is totally inadequate in the present situation.

The purpose of this study is to set out the implementation components of intermunicipal or regional services networks with respect to police, fire protection, land assessment and domestic waste disposal and to establish a strategy aimed at finding short term solutions to the problems caused by floods and sand pits in the municipalities of Ste-Marthe and Pointe-Calumet. The total cost of this project will be assumed through the Agreement with grants in the amount of \$130,000.

Study on housing requirements

This project will permit the formulation of a strategy for the construction of low rental housing units throughout the airport area and each one of its sectors.

The estimated cost of this project amounts to \$30,000. and will be financed through the Agreement under the form of grants. SATRA is the responsible agency for this project.

Infrastructure for airport industrial park (conditionnal on outcome of study)

The PICA localization and development study currently being carried out is aimed at determining the opportunity to establish an accomodation structure for the industry directly attracted by the new airport. If it is proven that a demand exists for industrial and commercial sites close to the new airport, it will then be necessary to proceed immediately with the actual implementation of an industrial and commercial park.

The operation of the airport being scheduled to start in 1975, PICA should then be a physical entity ready to accommodate the industries interested in locating in the immediate vicinity of an international airport.

The Agreement provides for \$640,000. in loans to undertake the works that the PICA study is currently defining.

3- Municipal Projects

St-Jérôme - redevelopment
of centre-town

The Agreement will provide approximately \$1 million, (\$460,000. in grants) to carry renewal works in downtown St-Jérôme. The works include changes in various streets. Negotiations are in progress to determine the exact nature of the projects.

Ste-Thérèse

The town of Ste-Thérèse faces various problems related to its rapid growth; its old urban core has rapidly deteriorated and has not followed the same evolution as the rest of the municipality.

The necessity for redevelopment was recently confirmed in view of the development selection carried out by SATRA and approved by the municipalities in the area. Ste-Thérèse was chosen as an important growth center which will receive 180,000 inhabitants in the year 2001.

The project will include infrastructure works for water supply, storm and sanitary sewers

and paving in a downtown quadrilateral. Moreover, the project includes the canalization of the Aux Chiens River to allow for better land use.

The Agreement will provide \$700,000. for this project (\$350,000. in the form of grants).

Lachute - redevelopment of centre-town

This project will include the redevelopment of the downtown area services in order to supply to commercial firms and business offices, more particularly to clients, adequate facilities designed to provide for the city's growth and to maintain the regional service center role of the present downtown area.

This project includes three elements, that is: redevelopment of the downtown eastern access through highway 41; - redevelopment of the main street; - construction of a sewer collector and a main water supply line west of the main street.

The Agreement will provide \$600,000. for this project (\$300,000. in the form of grants).

St-Eustache - construction of underground water reservoir

The whole water distribution system of the Grande Côte area is only supplied through a single 12" diameter pipe from downtown St-Eustache. Because of urban growth, the demand is rising sharply and the static pressure is inadequate to fill the needs.

This project will include the construction of a reservoir in order to store treated water necessary to balance pressures and fill the needs. The present "Sewer and water master plans" study will determine the final location and capacity of the

reservoir.

The Agreement will provide \$230,000. for this project (100,000. in grants).

St-Eustache - Improvements
to water filtration plant

This project will provide for a better pressure through the whole water distribution system of the town of St-Eustache, more particularly in the downtown and eastern areas. The improvements will permit to balance pressures, therefore insuring a better service to users.

The project includes an increase of treated water pumping capacity and a modification of the distribution system at the filtration plant outlet.

The Agreement will provide \$11,000 for this project, (\$50,000. in the form of grants).

Deux-Montagnes - increasing
capacity of water filtration
plant

This project will provide for an optimization of the filtration plant production capacity, in order to adequately fill the actual and future needs of the municipality.

The project includes the equipment of a 4th filter, actually not in use, by installing a filtering core, allowing a nominal capacity of 2.16 million gallons per day, instead of 1.3 million currently, and a maximum capacity of 3 million gallons per day. Such capacity would be sufficient to answer the demand until 1975. In order to complete the changes, it will be necessary to install a new unfiltered water pump and a new treated water pump.

The Agreement will provide

\$880,000. for this project
(\$460,000. in the form
of grants.)

Lachute - Increasing
capacity of water filtration
plant

Because of a lack of treated water storage either at the filtration plant or in downtown Lachute, the filtration plant must operate directly according to the demand. The increase in the plant capacity will allow the development of an installed capacity sufficient to satisfy daily peak output as well as the increase in average consumption which presently reaches the nominal capacity of the plant.

In 1971-72, the Agreement provided \$683,000. in grants for the erection of a dam, which allows a daily controlled flow of 7 million gallons of unfiltered water.

The actual project includes modification of sedimentation and filtering equipment in order to increase the plant nominal production capacity from 2 to 4 million gallons per day.

The Agreement will provide \$330,000 for this project, (\$120,000 in the form of grants).

Municipalities - Master plans for urbanization and development (this sum will be split between the principal centres in the area for specific projects)

The municipalities located within the airport area must, according to the law, prepare municipal urban plans. The subsidies will be paid on a per capita basis, in four instalments corresponding to the four urban planning phases proposed by SATRA. This urban planning path takes into consideration the grouping assumptions expressed by SATRA and the Department of Municipal

Affairs.

The Agreement will provide \$300,000. for these works, (\$145,000 in grants).

Reserve

A sum of \$1,612,000. (\$697,000. in grants) is reserved to allow for increases in costs and approval of new projects.

