



# Building Communities & Partnerships

Canada-Ontario  
Infrastructure Program

SuperBuild Millennium Partnerships

City of Greater Sudbury

September 19, 2001





## Canada-Ontario Infrastructure Program

### *Investing In The Quality of Life of Our Community*

- Enhance the quality of Canada's environment
- Support long-term economic growth
- Improve community infrastructure
- Build 21st century infrastructure through best technologies, new approaches and best practices





## Canada-Ontario Infrastructure Program *Priorities*



### **First Priority**

- Green municipal infrastructure

### **Second Priority**

- Local transportation infrastructure, cultural and recreational infrastructure, infrastructure supporting tourism, rural and remote telecommunications, high-speed internet access for local public institutions, and affordable housing.



# SuperBuild Millennium Partnerships *Priorities*

- Address gridlock, including transit expansion projects
- Environmental protection, including water and sewer upgrades and environmental remediation projects
- Access to strategic highway corridors and international border crossings
- Urban revitalization projects, including “public realm” components of downtown and waterfront renewal projects



## Community Priorities *Projects*

There is a sound business case for each of the projects that we will present to you today.

They are projects that are essential to the well-being of our community.

They are projects that enhance quality of life for our residents.

### **Project 1**

David Street Water Treatment Plant

### **Project 2**

Rock Tunnel

South End Sanitary Sewer Capacity

### **Project 3**

Rebuild and Expand

Municipal Road 35

### **Project 4**

Expansion of Sewer and Water Service

South Shore of Ramsey Lake

### **Project 5**

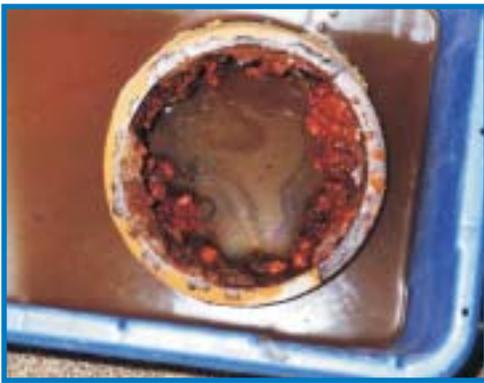
Accessible Transit

Greater Sudbury Transit (buses)



# A Community Priority Project 1

## David Street Water Treatment Plant



The City of Greater Sudbury's existing water supply to the former City of Sudbury and the communities of Coniston, Wahnapiatae and the western portion of Garson is delivered from the Wanapitei and David Street plants.

The David Street facility processes are limited to micro-screening of the raw water supply and chemical treatment to provide disinfection and corrosion control.

Deteriorating water quality in the distribution system in the service area of the David Street facility have prompted an immediate review of the facility, the options for correction, and an overview of the short and long-term alternatives for the facility.

Ontario Regulation 459/00 requires that surface water supplies have full treatment, including filtration.

The City of Greater Sudbury has chosen to upgrade David Street with the addition of a micro filtration plant on the existing site.



Vital to our Community

# Project 1

## David Street Water Treatment Plant

This facility provides municipal water to approximately 40,000 citizens in the City of Greater Sudbury.

This facility does not meet current Ontario Drinking Water Standards.

Ontario Regulation requires that the work be completed by December 31st, 2002.

The City wishes to upgrade the plant as soon as possible.

The City recently applied to the Ministry of the Environment for an extension to the deadline because the funding is not in place.



We're ready to proceed!

# Project 1

## David Street Water Treatment Plant

In order to fast track this project, there are three contracts:

- pre-selected filtration system
- connecting watermains
- general contract to upgrade the plant

The City has applied for a Certificate of Approval

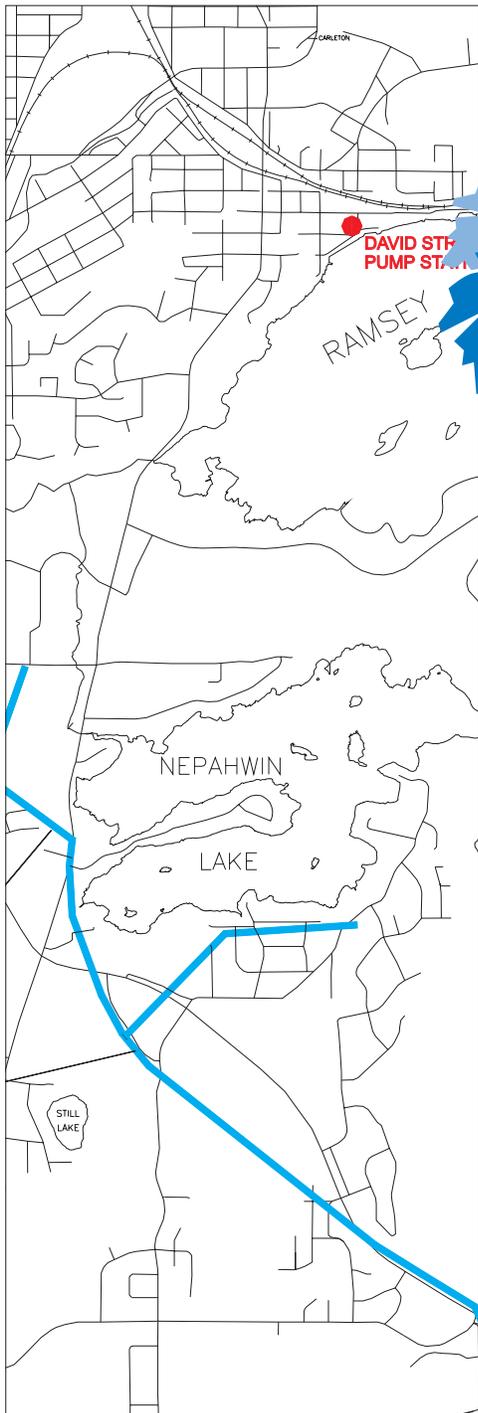
This project can commence immediately.

**Total Cost  
\$20 Million**



### **Meets Federal & Provincial Criteria**

- Enhances the quality of Canada's environment
- Supports long-term economic growth
- Improves community infrastructure
- Builds 21st century infrastructure through best technologies, new approaches and best practices
- Environmental protection, including water and sewer upgrades and environmental remediation projects



## A Community Priority *Project 2*

### Rock Tunnel South End Sanitary Sewer Capacity

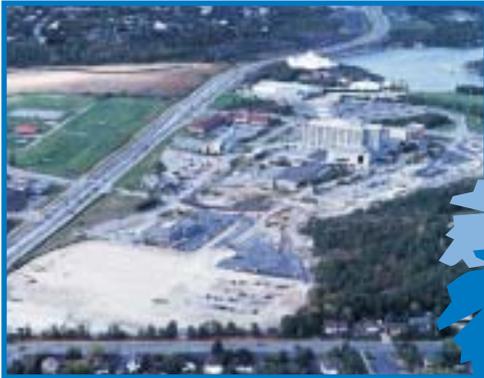
An Environmental Assessment confirmed that there are significant sanitary sewer capacity limitations in the City's south end. These limitations, during high wet weather flow, has resulted in sewer backup in private homes as well as sewage spills to our surface water systems.

Unless rectified in short order, an immediate freeze will be required on all new development in this area. Construction of the rock tunnel will meet the private sector's demand to develop in this area.

We would use storage capacity in the rock tunnel to manage our energy costs at the Sudbury Sewage Treatment Plant so that we treat sewage at non-peak times. The rock tunnel is an innovative energy conservation initiative.

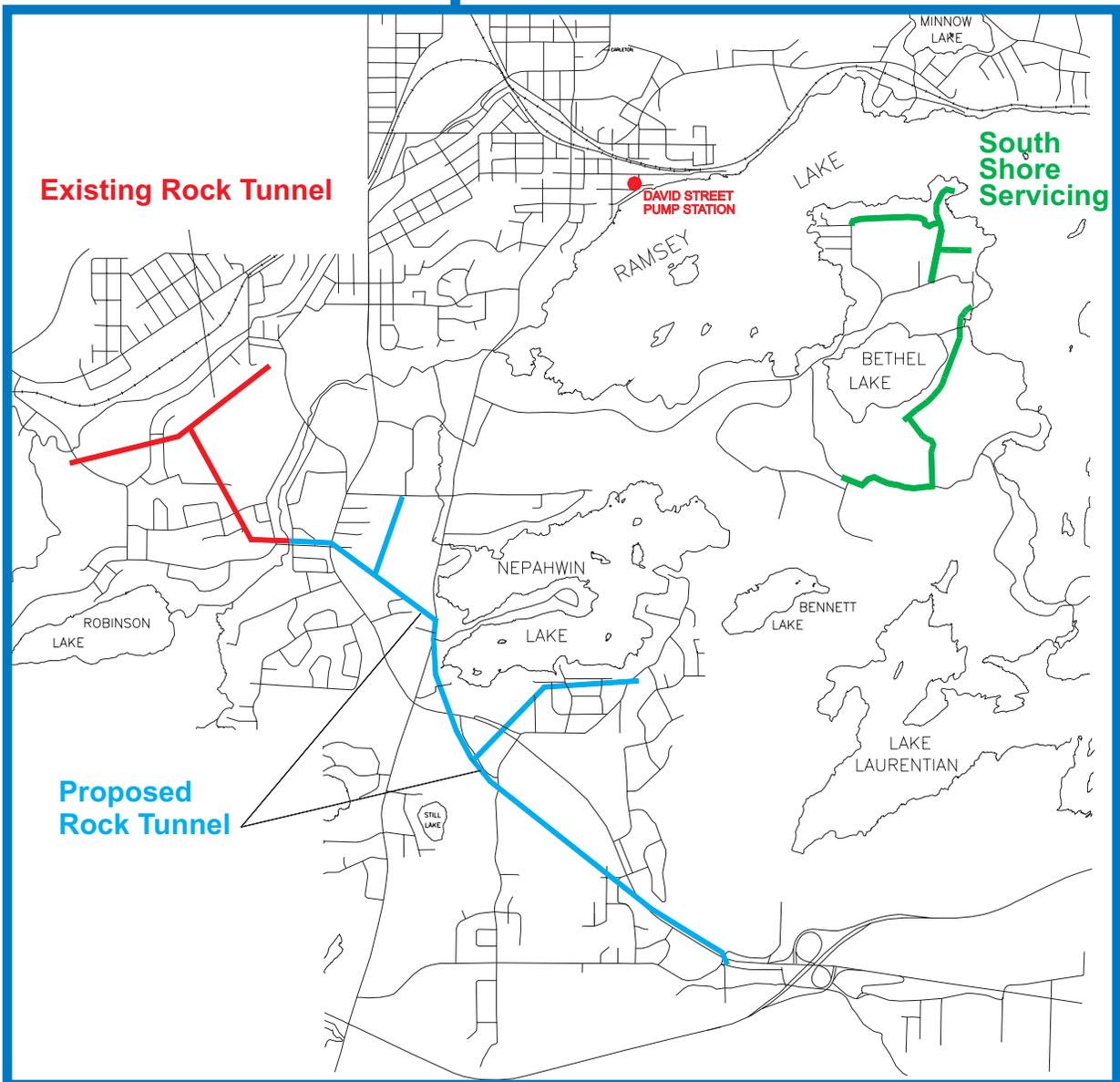
The preferred solution is to build collector rock tunnels and related work that would intercept the flow at key locations in the existing system and direct the flow to the Sudbury Sewage Treatment Plant.

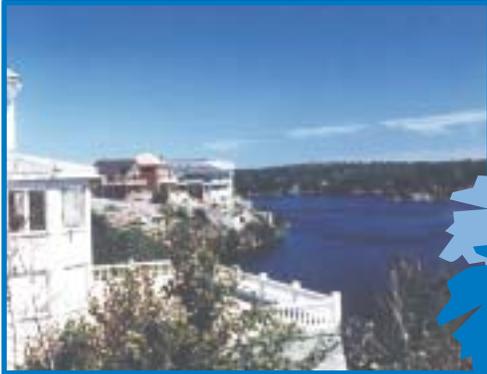
Many other areas of the former City of Sudbury are serviced with rock tunnels which have been extremely effective over the years.



# A Community Priority *Project 2*

## Rock Tunnel South End Sanitary Sewer Capacity





Vital to Our Community

# Project 2

## South End Sanitary Sewer Capacity



The South End of the City is a growth area in the residential, retail and commercial sectors. This growth will contribute additional sewage flows affecting capacity.

The South End is home to Laurentian University, Sudbury Regional Hospital (the fourth largest hospital in area in Ontario and the referral centre for Northeastern Ontario), the Northeastern Ontario Regional Cancer Treatment Centre and Science North.

This project will provide additional capacity required for future growth and eliminate the environmental problems associated with a hydraulically overload sewer system.



We're ready to proceed!

## Project 2

### Rock Tunnel South End Sanitary Sewer Capacity

The Environmental Study Report is out for 30-day public review.

Detail design can start immediately thereafter.

Construction can start in the second half of 2002 to be completed by the end of 2004.

**Total Cost  
\$22 Million**



#### **Meets Federal & Provincial Criteria**

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- Supports long-term economic growth
- Improves community infrastructure
- Builds 21st century infrastructure through best technologies, new approaches and best practices
- Environmental protection, including water and sewer upgrades and environmental remediation projects



## A Community Priority *Project 3*

### Rebuild and Expand Municipal Road 35

Municipal Road 35 is the primary link between the downtown core of the City and the communities of Levack, Onaping, Dowling, Chelmsford and Azilda. This roadway connects Highways 17 and 144 to the city core.

Initially constructed as a two-lane arterial highway by MTO, it now carries a daily traffic volume exceeding provincial standards for multi-laning. With 17,000 vehicles daily, it has a history of serious vehicle accidents, including fatalities.

The former Region of Sudbury undertook a Class Environmental Assessment in 1995, which concluded that the road should be four-laned within a five-year timetable.

Since then, several significant traffic-generating initiatives have occurred along this corridor:

- Inco's McCreedy East Mine
- Expansion of the Radisson Industrial Park
- Trillium Centre (Conference Facilities)
- Northern Ontario Police Academy
- Academy of Leading Emergency Response Technologies (ALERTech)
- Greater Sudbury's Racetrack Slots

*There is a significant safety consideration with this roadway, which is a major transport and mine slurry truck route.*



Vital to Our Community

# Project 3

## Rebuild and Expand Municipal Road 35

The four-laning of Municipal Road 35 will improve intraprovincial travel and transportation, benefiting both Timmins and Greater Sudbury.

Public safety will be dramatically improved.

A barrier to industrial and community development will be eliminated and residents will have excellent access to their places of employment and study.

The visitor experience to vital attractions such as the racetrack slots, scenic lookouts and trails, and major annual events (such as the PowerBoat Races) will be substantially enhanced.



We're Ready to Proceed!

## Project 3

### Rebuild and Expand Municipal Road 35

Phase one of this project is currently underway which entails the rehabilitation and widening of an existing concrete bridge over the CPR main line

Engineering design for the required work for Municipal Road 35 is underway with the final design and tender package anticipated to be completed in 2002

Construction for the required work can commence in 2002 with completion in the later part of 2004

**Total Cost  
\$11 Million**



#### **Meets Federal & Provincial Criteria**

- Enhances the quality of Canada's environment
- Supports long-term economic growth
- Improves community infrastructure
- Access to strategic highway corridors and international border crossings



A Community Priority

# Project 4

## Expansion of Sewer and Water Service South Shore of Ramsey Lake

Many of the existing homes along the South Shore of Ramsey Lake are serviced with private sewage disposal systems. The effluent from these systems ultimately migrates into Ramsey Lake, a source for municipal water supply. This area is the last major area around Ramsey Lake to be unserved.

The City has made a long-term commitment to maintaining Ramsey Lake as a source of drinking water for the City with the upgrading of the David Street Water Treatment Plant.

The water services to the area would be constructed at the same time as sewer. Constructing both services together will minimize the overall capital cost.



Vital to Our Community

# Project 4

## Expansion of Sewer and Water Service South Shore of Ramsey Lake

Ramsey Lake is a source of potable water for 40,000 residents of the City of Greater Sudbury.

The servicing of this area is a critical component of the Ramsey Lake Watershed Protection Plan.

The sanitary sewer servicing of this area will increase the pressure on the south end sewer system. Therefore, the commissioning of this project will be scheduled to follow the commissioning of the lower section of the south end rock tunnel.



We're Ready to Proceed!

## Project 4

### Expansion of Sewer and Water Service South Shore of Ramsey Lake

- Concept design for servicing the area is complete.
- Detailed design and preparation of the contract can proceed immediately.
- Construction in 2002-2003

**Total Cost  
\$9 Million**



#### **Meets Federal & Provincial Criteria**

- Enhances the quality of Canada's environment
- Supports long-term economic growth
- Improves community infrastructure
- Builds 21st century infrastructure through best technologies, new approaches and best practices
- Environmental protection, including water and sewer upgrades and environmental remediation projects



A Community Priority

# Project 5

## Accessible Transit Greater Sudbury Transit

Developing an accessible transit system to service all of the communities in the new City is a municipal priority.

The City of Greater Sudbury's Transit System currently has a fleet of 48 buses, 15 of which are low-floor buses.

Eight of the city's 20 urban transit routes are designated as accessible routes, and are served by low-floor buses.

The City proposes to purchase 14 low-floor, two of which would be alternate fuel source, introduce accessible commuter public transit routes throughout the City.



Vital to Our Community

# Project 5

## Accessible Transit Greater Sudbury Transit

The Accessible Transit System will meet the transportation needs of all citizens, including those with special needs.

It will also alleviate traffic congestion and increase environmental protection.

Greater Sudbury Transit operates a fleet of 48 buses and provides four million rides per year.

Greater Sudbury Transit has been honoured nationally for its contribution to the transit industry. Greater Sudbury Transit received the Canadian Urban Transit Association 2001 Outstanding Achievement Award for successful transit amalgamation in the new City.



We're Ready to Proceed!

## Project 5

### Accessible Transit Greater Sudbury Transit

Routes and schedules are complete and service has been harmonized across the City of Greater Sudbury.

An RFP is being issued this fall to the private sector for the provision of Handi-Transit services.

An RFP for the purchase of low-floor accessible buses is being developed and can be issued immediately

**Total Cost  
\$7.7 Million**



#### **Meets Federal & Provincial Criteria**

- Enhances the quality of Canada's environment
- Supports long-term economic growth
- Improves community infrastructure
- Address gridlock, including transit expansion projects
- Access to strategic highway corridors and international border crossings



We're Ready to Proceed!

# Summary

## Building Communities and Partnerships

<b>Projects</b>	<b>Total Cost</b>
David Street Water Treatment Plant	\$20 Million
Rock Tunnel South End Sanitary Sewer Capacity	\$22 Million
Rebuild and Expand Municipal Road 35	\$11 Million
Expansion of sewer and water service South Shore of Ramsey Lake	\$ 9 Million
Accessible Transit Greater Sudbury Transit	\$7.7 Million



We're Ready to Proceed!

# Summary

## Building Communities and Partnerships

### A Partnership

**\$15 Million**

(already committed)

Province of Ontario

SuperBuild Millennium Partnerships

**\$15 Million**

(already committed)

City of Greater Sudbury

**\$15 Million**

Government of Canada

Canada-Ontario

Infrastructure Program



We're Ready to Proceed!

# Summary

## Building Communities and Partnerships

The City anticipated this opportunity.

The City has \$15 million in available funds as our share of the partnership for the completion of these priority projects.

### **Project 1**

David Street Water Treatment Plant

### **Project 2**

Rock Tunnel

South End Sanitary Sewer Capacity

### **Project 3**

Rebuild and Expand

Municipal Road 35

### **Project 4**

Expansion of Sewer and Water Service

South Shore of Ramsey Lake

### **Project 5**

Accessible Transit

Greater Sudbury Transit



Thank You!

# Summary

## Building Communities and Partnerships

The City of Greater Sudbury, in this report, has identified immediate community priorities for infrastructure needs. The City requires the assistance of its partners at the federal and provincial levels to turn these priorities into reality for the citizens of Greater Sudbury.

The Province, through its SuperBuild Millennium Partnerships, has already committed \$15 million in funding for City of Greater Sudbury infrastructure needs.

The commitment of the Federal Government, through the Canada-Ontario Infrastructure Program, will enable us to move ahead with these projects as soon as possible.

The David Street Water Treatment Plant, the Rock Tunnel/South End Sanitary Sewer Capacity Project, the rebuilding and expansion of municipal road 35, the expansion of sewer and water service to the South Shore of Ramsey Lake and accessible transit are all priority projects.

All of the projects will be contracted to the private sector, which will inject \$45 million of private sector work into the local economy. This will create jobs and economic development opportunities.

These projects do not, by any means, represent all of the City's infrastructure needs. They do, however, reflect the community priorities that are critical at this time.

Thank you for the opportunity!