



# Engineering & Public Services

## Quarterly Status Report

Fourth Quarter 2004

October - December

### **ENGINEERING**

#### **Approved Capital & Supplemental Projects**

*The current status of the approved projects is attached to this report.*

#### **Projects**

##### **Transportation Planning Study Projects**

*Council considered the Staff reports in respect of the Bike Routes and Pedestrian Facilities policies and recommended projects and the Rural Road Maintenance Standards (Mt. Newton Cross Rd between Malcolm Rd to Senanus Drive) and accepted Staff recommendations to:*

- a) adopt a resolution to officially recognize the heritage value and character of Mt. Newton Cross Rd and endorsed the amended "Guidelines for Construction and Maintenance of a Heritage Rd (Mt. Newton Cross Rd, between Malcolm Rd and Senanus Drive);*
- b) endorse the recommended policies for bicycle routes and pedestrian network and facilities and the recommended prioritized list of projects contained in the Staff Report; and*

*Staff was instructed to proceed generally in accordance with this prioritization in future proposed amendments to the Five Year Financial Plan and preparation of the Annual Budgets.*

*Accordingly, appropriate supplementary requests for implementation of these projects will be presented to the Council during the 2005-2009 Financial Plan deliberations.*

#### **Speed Control Measures – Moodyville Area**

*A supplementary request is being submitted to undertake a traffic study in 2005 to address the related issue of vehicular traffic, speeding, parking, traffic flow patterns, congestion and pedestrian safety in the neighbourhood in consultation with the neighbourhood residents, and to explore/recommend potential measures and options to address the various concerns in this regard.*

#### **GIS Initiative**

*Interviews for hiring a Co-op student from Camosun College for the purpose of conducting GPS Survey of the municipal water, storm and sanitary network were conducted and Tim Perret was offered the position. Tim is to start work on January 4, 2005.*

#### **Hagan Rd Storm Water Drainage**

*Construction of the first 30m of storm sewer complete. The remaining 26m is scheduled for construction in early 2005.*

#### **Brentview Road Storm Water System**

*Work to repair the storm water system on the Tsartlip reserve is to start in early 2005. The results of this work will determine the extent of works to be completed on Brentview Road. Design for the Brentview system is 95% complete.*

#### **Willow Way Foot Bridge**

*The work was completed during the fourth quarter of 2004.*

**Graham Creek and other Drainage Studies**

The GMF grant application is being prepared. \$20,000 from the Local Government Grant Program has currently been approved for the study.

**Brentwood Bay and Saanichton Bay Public Docks**

The contract for the routine maintenance and upgrade of the Brentwood Bay & Saanichton Docks was awarded to Albatross Marine Ltd. The garbage pick-up at the two locations is being carried out by the Municipal crew. Albatross, as part of their contract, completed a thorough detailed inspection of the two facilities. Their recommendations for the proposed repairs (estimated value \$200,000) have been accepted by the District.

The contractor will proceed with piling replacement at Brentwood Bay and the float replacement at Saanichton Bay in early 2005.

**Cross Connection Control**

Engineering Department staff (Mike van der Linden) has been appointed to the CRD Cross Connection Control Committee. The objective of the Committee is to implement a regional standard for the prevention of cross connections. Cross connections are the potential of backflow of non-potable water into our drinking water supply system. The Committee is in the midst of preparing a regional bylaw and best practices guide for the implementation of a suitable program.

**Butchart Sewer Main Upgrade**

Design work completed for the replacement of 200m of sanitary sewer main that is downstream of the Butchart Gardens sewer lift station. Public Works completed the construction in the Fall of 2004.

**Lochside PRV Station**

Early approval was granted for this project. The contract has been awarded to G&E Equipment Rental. Construction is complete with commissioning of the station in December 2004.

**SCADA**

Equipment has been procured through the CRD and installed with the assistance of Public Works. Hagan and Brentwood sewer lift stations are currently on-line and able to be monitored by maintenance staff from a remote location. Equipment has been installed in eight of our other sewer lift stations which will bring our total of SCADA monitored sites to ten by year end.

**West Saanich Road Traffic Corridor Revitalization**

Consultants were instructed to go to 100% complete design (February 1, 2005). Negotiations with Devon Properties are underway to acquire additional road allowance for the proposed roundabout, along with landscape design.

**Bicycle Route – Mt. Newton Cross Road, Between Hwy #17 and East Saanich Road**

The Engineering Department is gathering information and applying for the Cycling Infrastructure Partnership Program (CIPP) for 50% funding improvements to the Mt. Newton Cross Road widening to accommodate bike lanes from Hwy. 17 to East Saanich Road.

**Saanichton Bay Erosion Protection**

Meeting held with stake holders and consultant to present repair options acceptable to DFO. One repair option has been accepted. 100% design with Class 'B' cost estimates expected by the end of January. Four funding options being presented to Council for budget deliberations (2005-2009 Financial Plan).

## **Vehicle Equipment Maintenance**

- ❖ *Retrofitted the new Water/Sewer truck with a new hydraulic system and electronic throttle controls.*
- ❖ *Assisted in the assembly and installation of the new skateboard park in Centennial Park.*
- ❖ *Installed new computers and power supplies in the Police cars.*
- ❖ *Installed a new fire pump for the Fire Department.*
- ❖ *Maintained the service standard for all municipal vehicles and equipment.*
- ❖ *Prepared all snow and ice clearing equipment.*

## **Roads and Drain Maintenance**

- ❖ *Paving cuts for water and sewer repairs.*
- ❖ *Installed three new bus shelters.*
- ❖ *Root cut and flushed 12,100 meters of storm drain lines.*
- ❖ *Cleaned and inspected over 1,200 culvert ends, 1,300 catch basins, 4,000 meters of road side, and ditches.*
- ❖ *Removed the berm from over 1,000 meters of road to allow positive drainage to the road side ditch.*
- ❖ *Continue to street sweep cleaning up leaves and other debris.*
- ❖ *Continue to address drainage concerns directed from Engineering (Lochside, Central Saanich Rd., Stelly's).*
- ❖ *Install culvert pipe, prep area and rebuild the approaches for the new Willow Way Bridge.*
- ❖ *Responded to 4 MVA's for clean-up.*

- ❖ *Responded to 6 after hours requests for salting due to icy road conditions.*
- ❖ *Received inspection data for 2004 with storm drain video contract.*
- ❖ *Responded to customer service requests on a daily basis.*
- ❖ *Address long outstanding drainage concerns / complaints by the drainage work staged on Hagan Road. Started this Fall and to be completed in the Spring.*
- ❖ *Completed "in house" over 100 meters of sidewalk, curb and gutter, and catch basin upgrades along Keating Cross Road.*

## **Water and Sewer Maintenance**

- ❖ *Installed level transmitters at Brentwood and Hagan Sanitary Pump Stations.*
- ❖ *In response to inundation and infiltration of storm water into the sanitary sewer system, 102 repairs were made to the sanitary sewer system.*
- ❖ *The Stelly's/Tsartlip Sanitary Force Main union was completed.*
- ❖ *Installed twenty new sanitary sewer connections as third-party works.*
- ❖ *Two new small sanitary grinder pumps were purchased and installed.*
- ❖ *Replaced 492 water meters in the first year of the water meter replacement program.*
- ❖ *Saanichton PRV water station retrofit has been postponed until the 2005 water main flushing program.*
- ❖ *Installed Stortz nozzles in fire hydrants as per 2004 budget. 100 of 442 fire hydrants are now retrofitted/complete.*

- ❖ Installed 30 new water services as third party works.
- ❖ Ongoing maintenance of the water system and the sanitary sewer system as per the annual service levels.

### **Workplace Safety and Risk Management**

In order to comply with Workers' Compensation Board (WCB) Regulations and limit the District's liabilities, the following steps were taken:

Weekly General Safety Meetings and Monthly Safety Committee Meetings were held at the Public Works Yard.

- ❖ Ensured the completion of quarterly inspections:
  - i. First Aid Kits.
  - ii. Eye wash stations, and
  - iii. Emergency Lights.
- ❖ Provided training/clinics for the following issues:
  - i. Hep B immunization (3<sup>rd</sup> and final), and
  - ii. Flu Shot clinic.
- ❖ Maintained storage of Safety & First Aid Supplies.
- ❖ Safe Work procedures: Completed Pre-Excavation Requirements.

### **Parks Maintenance**

- ❖ Performed routine Parks tasks such as litter collection and trail maintenance within the Parks System.
- ❖ Planted over 120 6'-8' trees in Centennial Park, Saanichton Bay, Blossom Park, Mt. Newton Rd.
- ❖ Planted over 300 native shrubs within Centennial Park.
- ❖ Bulb planting in Centennial Park, West Saanich Blvd., Rodolph Park, Pioneer Park and Rom Knott Park.

- ❖ Routine grass cutting within our Community, Neighbourhood and Nature Parks.
- ❖ Monthly Park and Playground Inspections completed.
- ❖ Installed new irrigation system around the field house within Centennial Park.
- ❖ Routine painting of barricades, tables, installing new garbage cans, etc.
- ❖ Tree management is underway as well as assisting other Sections with tree related issues.

### **Public Services**

- ❖ Completed annual inspections:
  - i. three winchers,
  - ii. fuel pumps,
  - iii. shop vehicle hoists,
  - iv. shop 2 ton jib crane,
  - v. small vehicle crane.
- ❖ Fuel Tanks:
  - i. Monitored tanks on a weekly basis to ensure that the tanks are not leaking, and
  - ii. Physically inventoried tanks on a monthly basis to ensure that there is not any fuel loss.
- ❖ Completed physical verification of the Yard's inventory of small equipment.
- ❖ Completed physical count and adjustment of the yard's material inventory. Evaluation report will be issued in January. (**See table below**).
- ❖ Processed 112 Requests for Service.
- ❖ Completed December water meter reading program in 7 days; adding one additional data capture device and one new touch-read wand (early January 2005) in the hopes of reducing meter reading program to 5 days.
- ❖ Processed 31 routine municipal traffic, street light and BC Hydro maintenance requests.

Vehicles and Equipment:

Description	Budget	Actual Cost
Service van #412 replaces #402	50,000	41,597.14
Flat Deck # 214 replaces #204	42,000	47,670.92
Flail mower #318 replaces #308	100,000	93,863.36
Mower # 210 replaces # 200	25,000	24,914.38
New Utility vehicle #267	15,000	14,849.48
Shoring	20,000	20,000.01
Replace deck on mower #203	5,000	4,749.07
Replace Rom Knott Play Equipment	25,000	22,822.41
<b>TOTAL</b>	<b>\$282,000.00</b>	<b>\$270,466.77</b>

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