



# Engineering & Public Services

## Departmental Activity Report

January – April 2008

### **ENGINEERING**

#### *Bylaws*

##### **Truck Route Bylaw**

The study is complete. The final draft report was presented to the Public Works & Transportation Committee on January 14, 2008. Council referred this issue to a future Committee Meeting in May for further discussion.

#### *Projects*

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

- **Mt. Newton and Central Saanich Road Crosswalk Review** Traffic Consultant recommends provision of traffic calming measures (pedestrian refuge) at this location. It is intended to review the effectiveness of the proposed pedestrian refuge at East Saanich and Prosser, before initiating engineering design for this project.
- **Mt. Newton and East Saanich Road Traffic Light** Report from Bundt and Associates was presented to Council during the 2008 Budget process. This project is now slated for 2012, as an upgrade is not required at this time.
- **East Saanich and Prosser Road Crosswalk Review** Preliminary design and cost estimates have been approved for design of traffic calming infrastructure. Project will be initiated upon approval of the 2008 budget. A meeting with affected residents has been held.
- **Wallace Drive Bike Lanes** Bike lanes have been constructed on Wallace Drive from the guard rails to Prosser Road.

- **Pavement Management Project** Stantec Consulting Ltd. has completed the study of the roadways within the District. The drafting of the final report is nearing completion and will identify which sections of the road network, on a priority basis require rehabilitation, the options of rehabilitation methods, and funding scenarios.
- **Asset Inventory and Valuation** Engineering will release a request for proposal for the preparation of the asset inventory and valuation of the storm water, sanitary and domestic water systems for the primary objective of meeting PSAB accounting and reporting standards. It is anticipated that the project will be completed in December 2008.
- **Bus Stop Improvement Program** Four new shelters have been constructed and a new bike rack was installed along with sidewalk repairs and extensions.
- **Integrated Stormwater Management (ISMP) Study** The 50% Review Meeting with a presentation to the Stakeholder Advisory Committee was conducted. Modeling of drainage basin is ongoing.

**Sandhill Creek Stewardship** Engineering and Public Works staff continue to work with Peninsula Streams representatives. Public Works Coordinator is the District's liaison on this project.

**SCADA** - Upgrades to the Hagan and Brentwood pumps of the waste water collection system have been completed, as well as the implementation of the SCADA system to five of the Water PRV stations. Originally anticipated for completion in late Fall 2007, to be extended into 2008 due to

unavailability of key components. This project is conducted in association with the CRD. Additional software upgrades will be required later in 2008/2009 to maintain compatibility with the CRD system.

### **Sewer System Modifications - \$187,000**

- Root repairs – ongoing
- Levelton Engineering is conducting a condition evaluation on a section of ageing asbestos cement forcemain from the Brentwood lift station. Approximately 400m of forcemain along Sluggett Rd may need to be replaced in the near future.
- \$187,000 has been previously allocated to the replacement of the Brentwood forcemain in 2008.

### **General Drainage Projects**

- Clarke Road drain is causing flooding down stream. Pipe lining will be investigated to repair the system.

### **Senanus Water Main Project**

District Staff continue to work with the Central Saanich West Voters Association and residents of the Local Area Improvement boundary on the administration of the petition for the water main extension.

**Brentwood Bay Water Study** –Testing and analysis will be completed this spring. It is anticipated that the consultants report will be presented to the District in May-June 2008.

**Dock Maintenance** Maintenance and Inspection of the two dock facilities continues to be conducted by Advanced Contract Services. The re-decking of the Brentwood Bay Float will be conducted in May and formal structural evaluations of both facilities will be scheduled later in summer. Winter storm damage to the concrete float and wharf at the Saanichton Bay facility will be completed after the structural evaluations have been completed.

### **Rezoning and Subdivision Applications**

Engineering and Public Works Department continues to review the Subdivision, Rezoning and Development Permit applications referred by the Planning Department.

### **2008 Capital Budget**

The following projects have been submitted for Council's consideration/approval:

- BC Hydro Undergrounding – Brentwood Revite Traffic Corridor
- Implementation of Truck Route Signage - \$15,000
- Traffic Signals Updates \$7,200
- Stormwater, Water Distribution and Sanitary Sewer Collection Infrastructure Renewal Study (PSAB requirement \$30,000)
- East Saanich Road Bicycle Lane – 8425 East Saanich Road to North Saanich Boundary – subject to receiving grant funding
- West Saanich Road/Benvenuto Avenue intersection improvement
- Design, supply and installation of drainage culverts – Willoway
- Malcolm Trail crossings replacement
- Public Works Yard roofing
- Sewer Collection System improvement
- Senanus Watermain Extension – detailed design
- Water supply system – SCADA hardware installation.

## **PUBLIC WORKS**

### **Vehicle Equipment Maintenance**

- ❖ Police – regular servicing of the fleet and two new black and white units readied for service.
- ❖ Fire – provincial inspection and regular servicing of all fire equipment.
- ❖ Roads/Drains – regular servicing and provincial inspections.
- ❖ Parks - regular servicing of vehicles and continued cooperation with parks staff to optimize well maintained and safe equipment operation.

- ❖ *Water/Sewer – regular servicing and provincial inspections. Provided a new single Axle Dump Truck and Service vehicle to the fleet.*
- ❖ *Engineering/Inspections- regular servicing.*

### **Water and Sewer Maintenance**

- ❖ *Maintained the entire water distribution system in the District.*
- ❖ *Maintained the entire sanitary sewer collection system.*
- ❖ *Water meter reading was completed in the end of April.*
- ❖ *Annual water meter replacement / check valve installation program is underway.*
- ❖ *Complete uni-directional flushing of entire Water System.*
- ❖ *Assist Consultant and Engineering with Flow test of Brentwood Water Zone.*
- ❖ *Complete rebuild of Saanichton PRV Station to WCB standards and install 4 new control valves to SCADA compatibility.*
- ❖ *Complete first of tri-annual water meter reading.*
- ❖ *Start annual Water Meter Replacement / Backflow installation program.*
- ❖ *Install 17 new services.*
- ❖ *Continue installation of Scada System to Water Stations.*
- ❖ *Complete annual cleaning and inspect all Pump Station wet wells and plumbing.*
- ❖ *Complete annual testing of all Sewage Pumps.*
- ❖ *Remove section of Brentwood PS force main for testing.*

### **Roads and Drain Maintenance**

- ❖ *200 hours sweeping.*
- ❖ *330 hours paving and patching potholes.*
- ❖ *580 hours dealing with drainage complaints and related work.*
- ❖ *560 hours reviewing video tape and root cutting and flushing of underground storm drainage.*
- ❖ *Cleaning all the catch basins in the District (approximately 1340).*
- ❖ *Removed 12.8 lane kilometres of road side berm.*
- ❖ *Placed gravel on shoulder areas for 130 hours.*
- ❖ *Cleaned out 1325 meters of road side ditches.*
- ❖ *Responded to six events requiring the salt/sand trucks to be dispatched.*
- ❖ *Started the annual sidewalk inspection.*
- ❖ *Started the annual road surface inspection.*
- ❖ *All members of department received training in spill response from local vendor.*
- ❖ *Responded to requests for service on a daily basis.*
- ❖ *Installed bus stop improvements to locations approved by Council. These included bike racks, pads shelters with benches, garbage cans, and installation of 40 meters of curb/gutter/sidewalk on the corner of Mt. Newton X and East Saanich to make the shelter wheel chair accessible connecting it to the rest of the sidewalk.*
- ❖ *Reinforced bank behind north shed in the Public Works Yard by installing lock blocks.*

## **Parks Maintenance**

- ❖ *Performed routine Parks tasks such as litter collection and graffiti removal.*
- ❖ *In late March routine grass cutting within our community and neighbourhood parks.*
- ❖ *Monthly playground inspections completed.*
- ❖ *Turf Management-deep tined aerated and top dressed Centennial and Alexander Field.*
- ❖ *Centennial Park - Peter Parson's Diamond upgraded the infield with infield mix.*
- ❖ *Ball Field maintenance completed at Rom Knott and Centennial Park.*
- ❖ *Restoration of the turf surrounding the Scout Hall Building.*
- ❖ *Performed projects in the Invasive Plant Removal Program within Oak Haven, Adam Kerr, Happy Day and Centennial Park.*
- ❖ *Oak Haven Park split rail and trail markings installed.*
- ❖ *Dedication Bench Installed at Centennial Park.*
- ❖ *Tree management is under way as well as assisting other sections of Public Works with tree related issues.*
- ❖ *Responded to extreme amounts of vandalism at Rom Knott and Centennial Park.*
- ❖ *Power washed the shelters, Tennis Courts and Lacrosse box at Centennial Park*
- ❖ *Hazard tree maintenance and dormant pruning of shrubs and trees completed.*
- ❖ *Planted over 900 native shrubs and trees at Centennial Park, Adam Kerr and other neighbourhood Parks.*
- ❖ *Extensive tree planting will continue in the Fall of 2008.*
- ❖ *Assisted the Tsawout First Nation and volunteers in the removal of 5 dump truck loads of broom and gorse from Cordova Spit on Earth Day.*

## **Workplace Safety and Risk Management**

*In order to comply with Work Safe BC 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*
  - iii. *Emergency Lights*
- ❖ *Provided training/clinics for the following issues: Chipper Safe Operation, Personal Protective Equipment, Personal Protective Equipment and Decontamination Procedures, Back Safety, Wellness & Fitness, Driving Safety, and Heat Stress and dealing with Hazardous Spills.*
- ❖ *Bio-hazard response kits were assembled and distributed.*
- ❖ *As of April 30, 2008, we have worked 62 continuous days without a significant lost-time accident. The maximum record is 661 days.*
- ❖ *Monitored Work Safe BC coverage of contractors who perform services for the Public Works Division.*
- ❖ *Driver Awareness training in Winter Driving, Speed & Speeding, Aggressive Driving, Managing Emotions, and Fleet Smart – "Don't be an Idle Driver".*

## **Public Services**

- ❖ *Driver Awareness training in Winter Driving, Speed & Speeding, Aggressive Driving, Managing Emotions, and Fleet Smart – "Don't be an Idle Driver".*
- ❖ *Procured 2 drums for hazardous materials clean-up, 1 for hydrocarbons and the other for antifreeze and unknown compounds.*

- ❖ Completed annual fall-arrest wincher certification.
- ❖ Organized replacement of staff orange coveralls with ones that have 4" reflective striping per new WorkSafeBC regulations (ETA mid May to mid-June).

**Vehicles, Equipment and Supplementary**

Description	Budget	Current Expense
Service Body #413, Carry-Over	22,684	19,909.60
Radio#413, Carry-Over	0	1078.48
Hydraulic system #413, Carry-Over	0	6702.98
Reimbursement for PTO from Metro	0	-3204.65
Traffic Signal Upgrade Year 2 of 4	7,200	7,200
Yard Reno, Roof	20,500	19,845
Yard Reno, General	2,500	0
New #511, retain #501 as min. use	25,000	0
Replace vehicle #303 with new #313	70,000	0
Replace vehicle #203 with new #213	35,000	0
Replace vehicle #205 with new #215	55,000	0
Replace vehicle #250 with new #270	25,000	0
New vehicle #206	50,000	0
Brentwood Revit. Bus Shelters	19,882	6,193.06
<b>TOTAL</b>	<b>\$332,766.00</b>	<b>\$57,724.47</b>

**Nirmal Bhattacharya, P. Eng.**  
**Municipal Engineer**  
**May 2008**