



Engineering & Public Services

Departmental Activity Report

January – April 2007

ENGINEERING

Bylaws

Soil Removal & Deposit Bylaw

The revised Soil Removal and Soil Deposit Bylaw was amended at second reading to incorporate the various recommended changes to address the concerns of local businesses. After third reading the Bylaw has been forwarded to the Ministry of Community Services for approval, prior to final adoption.

Truck Route Bylaw

The RFP will be sent out late May/early June, 2007.

Projects

Transportation Planning Study Projects

- Mt. Newton Cross Road Bike Route (Central Saanich Rd. to East Saanich Rd.) The lanes have been stamped for cyclists and the lines will be painted shortly.
- Sidewalk Infill on Keating X Road Work is being completed by District Public Works crew ongoing through the Fall.
- Grilse Lane/Bickford Lane – Water main installed, paving complete, and railing installed. Project complete.
- Traffic Control Signal Study – The required upgrades identified in the previous study will be implemented over three years commencing in 2007.

Integrated Stormwater Management (ISMP) Study The Request for Proposal (RFP) closing date was May 18, 2007. Three proposals were

received and a review will take place in the next few weeks.

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 - Preparations for the upgrades to the Hagan and Brentwood pumps of the waste water collection system have commenced, as well as the implementation of the SCADA system to five of the Water PRV stations. Anticipated completion in Fall 2007.

Sewer System Modifications - \$120,000

- Root repairs – ongoing
- Sewer Main replacement – Sea Drive/Delamere – Scheduled for Nov 06 has been deferred pending a review of the entire collection system.

Ravine Way Foot Bridge - Preliminary preparations have commenced for a joint Parks and Sewer venture for the replacement of the aging footbridge in Ravine Way Park. The new bridge will accommodate a section of sanitary sewer suspended underneath to replace a section of main currently in the creek bed. RFP to commence in June with anticipated construction during August-September.

West Saanich Road Traffic Corridor Revitalization

The project is effectively complete. Ribbon cutting ceremony will take place on June 22, 2007 at Pioneer Park.

CIPP Grant – (Cycling Infrastructure Partnership Program) Wallace Drive/Interurban Rail Trail between Stelly's Cross and Hovey Road has been approved and will commence in the Fall 2007.

English Meadows Subdivision - Support and inspections of the municipal infrastructure under construction, ongoing throughout Winter/Spring 2007. Anticipated completion May 2007.

General Drainage Projects

- Brentview Drive, Phase II to be completed in the Fall.
- Mt. St. Michael ditch works will commence in the near future.

Saanichton PRV Upgrades

Upgrades to the PRV resulting from the Senanus water main extension should not be required. Minor upgrades will be conducted in conjunction with SCADA modernization.

Brentwood Bay Water Study - Preliminary considerations for the preparation of an RFP for a study of the water distribution system in Brentwood Bay in regards to the availability of water for fire fighting in the commercial area as well as the redistribution of the pressure zones.

PUBLIC WORKS

Vehicle Equipment Maintenance

- ❖ Police – regular servicing of the fleet.
- ❖ 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.

- ❖ Engineering and Inspections – regular servicing of vehicles.
- ❖ Strict stock control and implementation of new provincial inspection and safety code requirements.

Roads and Drain Maintenance

- ❖ Responded to heavy rains, major windstorms and flooding.
- ❖ Responded to snowfall events with extended cold temperatures.
- ❖ Cleaned up winter storm damage.
- ❖ Patched potholes when the weather allowed.
- ❖ Asphalt repairs for Water / Sewer Section.
- ❖ Repaired two kilometers of road shoulder.
- ❖ Performed 250 hours of road sweeping.
- ❖ Cleaned out 1300 catch basins.
- ❖ Replaced five substandard culvert pipes and reinstated the headwalls.
- ❖ Flushed and root cut 2.5 kilometers of storm drain.
- ❖ Landscaped the Brentview storm repair project.
- ❖ Inspected and repaired (as required) all commercial signs.
- ❖ Cleaned and trimmed 75 traffic islands.
- ❖ Removed dead trees as per tree removal notification.
- ❖ Responded daily to service requests and inquiries.

Water and Sewer Maintenance

- ❖ Maintained the entire water distribution system in the District.
- ❖ Maintained the entire sanitary sewer collection system.

- ❖ *Renewed the sewer force main and electrical system at the Sea Drive pump station.*
- ❖ *Upgraded four sewer grinder stations.*
- ❖ *Completed Woodward Drive water main replacement.*
- ❖ *Installed three inspection chambers on sanitary sewer connections.*
- ❖ *Continued with SCADA installations.*
- ❖ *Installed two new fire hydrants.*
- ❖ *Installed and connected 8" water main at Verdier and West Saanich.*
- ❖ *Attended to all power outages caused by frequent winter storms.*
- ❖ *Flushed five kilometers of sanitary sewer main and repaired twenty three manholes.*
- ❖ *Assisted Roads Drains with storm response.*

Parks Maintenance

- ❖ *Performed routine Parks tasks such as litter collection, trail maintenance and painting within the Parks System.*
- ❖ *Routine grass cutting within our community, neighbourhood and nature parks.*
- ❖ *Integrated turf maintenance program was completed at Centennial Park.*
- ❖ *Monthly park and playground inspections completed.*
- ❖ *Fifteen dedication benches are being refinished.*
- ❖ *Spring set up of all irrigation systems and equipment is under way.*
- ❖ *Ongoing replacement of standard parks signage.*
- ❖ *Tree management is under way as well as assisting other sections of Public Works with tree related issues.*
- ❖ *Snow and ice removal at all Municipal facilities.*

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*
 - iii. Emergency Lights*
- ❖ *Provided training/clinics for the following issues:*
 - i. Excavation and Heavy Equipment Safety*
 - ii. Underground utility location*
 - iii. Work Safe Level 1 First Aid training*
 - iv. Pesticide applicators recertification*
 - v. Traffic Control Person training*
 - vi. Confined Space Entry*
 - vii. WHMIS and Transportation of Dangerous Goods training*
 - viii. Slips, trips and falls awareness*
 - ix. Asbestos awareness*
 - x. Eye safety and machine guard safety*
- ❖ *Completed annual fire extinguisher inspection.*
- ❖ *Upgraded first aid kits.*
- ❖ *Public Works has worked 279 days without a significant time loss accident.*

Public Services

- ❖ *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.*
- ❖ *Processed 149 requests for service.*

- ❖ *Updated and monitored the Public Works Section of the District website.*
- ❖ *Completed the annual inventory and equipment survey.*
- ❖ *Performed conditioning cycle test of emergency lighting.*

Public Works **Environmental Initiatives**

- ❖ *Scraping out the grass and debris from sidewalks seems to prevent growth and reduce the need to use herbicides.*
- ❖ *Wood products are no longer burned at the Works Yard, they are sent for grinding and the byproduct is recycled.*
- ❖ *All organic waste products are composted and produce topsoil for Public Works projects.*
- ❖ *All asphalt and concrete construction waste is returned to the production plant for recycling.*
- ❖ *Continue to implement the Integrated Pest Management program to reduce the use of pesticides in the community.*
- ❖ *Initiate the use of hybrid technology to reduce emissions and fuel consumption.*
- ❖ *Ongoing installation of low power LED lights so vehicles don't have to have the motor running on the job. This initiative reduces fuel consumption and reduces harmful emissions.*
- ❖ *A "NO UNNECESSARY IDLING" policy is in place for all public works vehicles to reduce emissions and reduce harmful emissions.*
- ❖ *A fuel additive is added to the diesel and gas to reduce emissions and add lubrication to reduce maintenance costs.*
- ❖ *Implementing Biodeisel use by installing tanks in the Central Saanich Works Yard in an attempt to reduce air pollution and consumption of fossil fuels.*

- ❖ *Invasive Species Management Program to remove invasive species in Centennial Park.*
- ❖ *Urban Forest Management Plan, including reestablishing disturbed areas with native species and planted well over 2000 trees and shrubs in various locations.*

Nirmal Bhattacharya, P. Eng.
Municipal Engineer
May 2007

