

2016 FACT SHEET

ENGINEERING STREET OPERATIONS



WHAT IS ENGINEERING STREET OPERATIONS?

This section maintains approximately 570 km of major, collector and residential roads throughout Saanich. Some of the major programs include road surface treatments (pothole patching, crack sealing, major patch, dig outs, skin patching), roadway resurfacing programs, sidewalk maintenance, brush trimming and maintenance of road markings. The snow and ice removal program is coordinated and assistance provided when other storm events occur.

Electrical and Manufacturing services include the maintenance of all street lights, street signs and traffic signals and the maintenance and repairs of vehicular bridges, pedestrian bridges, bus shelters and wooden/steel/concrete guard rails. We also perform the majority of our in-house capital works program.

Engineering Street Operations net 2016 budget is \$5,176,100

DID YOU KNOW WE PROVIDE?

Administration:

This includes overall management and clerical support including administering and supporting day to day maintenance activities for roads, electrical and manufacturing operations. It also includes staff training, cellular phones, safety meetings and tools & equipment replacement.

Net cost **\$787,500**

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Street Lights:

In 2015 over 1,170 requests for service were investigated. The most common requests are burnt out street lights or street light fixtures cycling on/off. Approximately 8,800 street lights are maintained and operated, including ornamental and decorative lighting fixtures within the public right of way. Typical maintenance activities include; re-lamping of high pressure sodium lamps, street light standard repairs/ replacement, light sensor replacements and customer driven complaints. Energy costs account for over 56% of this budget.

Net cost **\$819,500**

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Traffic Signals:

There are 59 fully actuated traffic signals and 19 pedestrian activated traffic signals and approximately 188 pedestrian solar beacons at 90 crossings within the municipality. Maintenance activities include traffic signal head cleaning and alignment, cabinet/junction box maintenance, conflict monitor testing and traffic loop replacement.

Net cost **\$382,700**

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Structures:

Approximately thirty vehicular bridges, twelve pedestrian bridges, one hundred and sixty five bus shelters and benches, wooden, steel and concrete guard rails are maintained. A variety of complaints such as trip hazards, graffiti removal and damage caused by motor vehicle incidents are investigated and responded to.

Net cost **\$194,500**

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Sign Shop:

The sign shop fabricates, assembles, installs and maintains approximately 26,000 street signs (regulatory, warning and information/directional) in Saanich. Specialty signs are also produced for the Municipal Hall, Parks and Recreation and outside agencies.

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| Revenues | \$256,900 |
| Expenditures | \$625,500 |
| Net cost | \$368,600 |

Road Surface:

The primary objective of this area is to preserve the roadway structure, extend its lifecycle and to provide a smooth, safe riding surface, free of hazardous defects. It involves the repair of depressions, potholes, alligatored sections, ravelling and other surface deteriorations through the installation of hot mix asphalt and rubberized crack sealant. The street sweeping program promotes a safe and clean driving surface, improves cycling on designated bicycle network routes and removes and improves storm water quality by reducing the amount of sediments entering the storm drains.

Net cost \$1,606,300

Road Improvements:

Minor road improvements include a surface lift to roadways which require new running surfaces. This is usually done in conjunction with the larger capital asphalt overlay program. This is used to remove the highs and lows of an uneven running surface prior to placing a conventional overlay or in isolated areas to cap a final lift. This is also used to fund a surface treatment on residential and rural roadways.

Net cost \$258,700

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Winter Program:

The Winter Program is performed in accordance with the Snow and Ice Control Manual. There are 14 priority routes which comprise approximately 140 km of the 570 km road network. These routes focus on major and collector roadways and steep hills to assist with the provision of emergency services, transit and the motoring public. A combination of salt brine, raw road salt and sand is used depending on conditions.

Net cost **\$180,600**

Road Marking:

Approximately 385 km of longitudinal line markings, 48 km of curb markings, marked pedestrian crosswalks, retro-reflective stimsonites (cats' eyes), bicycle symbols and other road markings are maintained throughout the municipality. The bulk of the program is done through a contracted service.

Net cost **\$247,200**

Road Drains:

The purpose of this program is to prevent property damage by redirecting run-off water from the road surfaces into acceptable outlets and to minimize erosion of the roads drainage system. This involves the installation of asphalt curbs along the edge of existing road surfaces or other treatments to reduce erosion. The containment and mitigation of hazardous materials on the roadway are also managed in this program.

Net cost **\$93,100**

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Roadside:

The purpose of this program is to remove brush and vegetation in order to preserve or achieve motorist's sight distances and ensure proper drainage. This involves either hand or machine cutting of the brush to ground level and removing the cuttings from the site or reducing the brush to mulch and leaving on site, as well as, removing overhanging limbs from specified trees to improve sight distance. This also includes minor repairs to bus stops and concrete/asphalt sidewalks to improve pedestrian mobility.

Net cost **\$133,300**

Transfer Facility:

A transfer facility, containing bins with various common construction materials such as brush, asphalt, concrete, soil, etc., is operated in the Public Works Yard. The facility is used to provide the different operational sections with mechanism to hold, sort and dispose of the above materials to minimize tandem axle turn around and for smaller loads.

Net cost **\$104,100**
