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**TO:** CITY MANAGER

**DATE:** 2000 MAY 31

**FROM:** DIRECTOR ENGINEERING

**FILE:** 10-01-12

**SUBJECT:** WORK ORDERS:

- 60-32-113 Byrne Creek Flood Mitigation Works - Engineering Services
- 60-13-015 Service Centre - Security System
- 60-13-016 Ventilation System - Welding Shop
- 60-21-133 Watermain Renewals (2000 Program - Phase III)

**PURPOSE:** To obtain approval of Work Orders 60-32-113, 60-13-015, 60-13-016 and 60-21-133

**RECOMMENDATION:**

1. THAT the above work orders as more specifically referred to in this report, be approved.

**REPORT**

**60-32-113 Byrne Creek Flood Mitigation Works - Engineering Services**

**Charge:** 2000 Annual Capital Budget  
Storm Drainage \$65,000

**Additional Information:** Byrne creek, in the vicinity of Byrne Road, has periodically flooded during heavy rainfall with subsequent road closures and flooding of adjacent properties. Over the past year, the City has developed a conceptual plan for flood mitigation and habitat improvements in the lower reaches of Byrne creek. The first phase includes the following proposed enhancements:

- Construct a sediment basin facility and habitat enhancement area upstream of Marine Way;
- Construct sediment basin facility near the confluence of John Matthews creek and Byrne creek;
- Improvements to channels immediately upstream and downstream of Marine Way culverts;
- Dyke improvements at several locations.

Consultancy services are required to prepare detailed engineering designs and provide contract administration at a total estimated cost of \$65,000. Sufficient General Revenue funds are available and these expenditures are included in the Storm Drainage component of the 2000 - 2004 Capital Program.

**60-13-015 Service Centre Security System**

**Charge:** 2000 Annual Capital Budget  
Service Centre \$60,000

**Additional Information:** A security audit conducted for the Service Centre in 1999 recommended several upgrades aimed at providing a higher level of security for the buildings and fleet of equipment and vehicles. Sufficient General Revenue funds are available and these expenditures are included in the Service Centre component of the 2000 - 2004 Capital Program.

**60-13-016 Ventilation System - Welding Shop**

**Charge:** 2000 Annual Capital Budget  
Service Centre \$60,000

**Additional Information:** The nature of materials and processes used in the welding shop requires an effective ventilation system to protect the health and safety of staff. An operational review has identified the need to upgrade the ventilation and air exchange in the shop. The proposed upgrade consists of an additional fan-exhaust system that complies with current WCB standards. Sufficient General Revenue funds are available and these expenditures are included in the Service Centre component of the 2000 - 2004 Capital Program.

**60-21-133 Watermain Renewals (2000 Program - Phase III)**

**Charge:** 2000 Annual Capital Budget  
Water Utility \$925,000

**Additional Information:** Appearing elsewhere on this agenda is an item recommending the award of Contract 2000-03: Watermain Renewals Program - Phase III. This is the final phase of our 2000 annual renewal program comprised primarily of aging watermains with a history of frequent breaks and high maintenance costs. Total estimated project cost of \$925,000, including ancillary works by City forces, exceeds current budget allocation by \$200,000. However, sufficient General Revenue funds are available in the Water Utility for project completion and appropriate adjustments will be made to ensure Capital Budget spending limits are not exceeded.

  
DIRECTOR ENGINEERING

AAS:  
cc: Director Finance