



To: Public Works and Transportation Committee

Date: June 28, 2010

From: John Irving, P.Eng. MPA
Director, Engineering

File: 10-6045-01/2010-Vol
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Re: Emergency Management BC 2010 Flood Protection Grant Program

Staff Recommendation

That the following projects listed in priority order be endorsed for submission to the Emergency Management BC 2010 Flood Protection Grant Program.

1. No. 3 Road South Drainage Pump Station Screens Upgrade
2. Williams Road Drainage Pump Station Upgrade
3. South Dike Seismic Upgrade No. 4 Road to No. 5 Road
4. No 1 Road North Drainage Pump Station Upgrade
5. South Dike Upgrade Erosion Control Rip-Rap Replacement No. 7 Road to ±1000 metres west

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ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER	
Roads & Dykes.....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Budgets	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
REVIEWED BY TAG	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	REVIEWED BY CAO	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

Staff Report

Origin

On June 18, 2010 the City was advised of the Emergency Management BC 2010 Flood Protection Program. Preliminary applications for funding are due July 30, 2010 (Tier 1 applications) and September 24, 2010 (Tier 2 and 3 applications). The Program instructions in 2009 required that the projects be endorsed by Council and this same requirement is anticipated for 2010. This report proposes several projects in priority order that fit the criteria outlined in the Emergency Management BC program.

Analysis

Emergency Management BC and the Federal Building Canada Plan, Disaster Mitigation Category of Infrastructure Canada have partnered to provide flood protection funding to communities throughout British Columbia. Staff have been advised that the total funding available to March 31, 2014 is \$75Million.

The 2010 grant program is based on a 1/3 Province Government, 1/3 Federal Government and 1/3 Local Government cost sharing formula for local government area populations that are greater than 100,000. Tier 1 projects (infrastructure) include those that can be completed on or before February 25, 2011, while Tier 2 and Tier 3 (infrastructure and strategic flood protection) projects must be completed by February 28, 2014.

The City was awarded \$4,798,562 as part of the Emergency Management BC 2009 Flood Protection Program.

The following outlines the flood protection related projects recommended for the 2010 Flood Protection Program, in priority order.

Project	Description
No. 3 Road South Drainage Pump Station Screens Upgrade (Tier 1), \$450,000	Includes replacement of ageing infrastructure and capacity upsizing of the intake screens immediately in front of the pump station drainage pumps.
Williams Road Drainage Pump Station Upgrade (Tier 2), \$1,900,000	Includes design and a complete renovation of the pumping system and buildings to upgrade ageing infrastructure and increase the pumping capacity approximately twofold.
South Dike Seismic Upgrade No. 4 Road to No. 5 Road (Tier 2), \$2,500,000	Includes design and construction of upgrades required to stabilize this section of dike from a seismic viewpoint and a dike raise to meet minimum Provincial requirements including an allowance for sea level rise.
No.1 Road North Drainage Pump Station Upgrade (Tier 2), \$3,450,000	Includes design and a complete renovation of the pumping system and buildings to upgrade

ageing infrastructure and increase the pumping capacity approximately twofold.

South Dike Upgrade Erosion Control Rip-Rap Replacement No. 7 Road to ±1000 metres west (Tier 2), \$1,790,000

Includes placement of erosion protection riprap on the existing dike face and a dike raise to meet minimum Provincial requirements including an allowance for sea level rise.

Financial Impact

Funding to upgrade the No. 3 Road Drainage Pump Station screens was approved by Council as part of the 2010 Capital Program, through the Drainage and Dikes Utility. Staff will submit the remaining projects for Council consideration as part of future capital programs funded through the Drainage and Dikes Utility.

Conclusion

The Provincial and Federal governments have partnered to provide flood protection funding to communities throughout British Columbia. Funding applications are due July 30, 2010 and September 24, 2010 for Tier 1 and Tier 2 applications respectively. Staff have prepared a prioritized list of flood protection related projects and are seeking Council endorsement in accordance with the anticipated program.



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