



To: Public Works and Transportation Committee
From: John Irving, P.Eng. MPA
Director, Engineering
Re: 2012 Flood Protection Grant Program

Date: April 16, 2012
File: 10-6045-01/2012-Vol 01

Staff Recommendation

- 1. That the Chief Administrative Officer and General Manager Engineering and Public Works be authorized to negotiate and execute the cost share agreements for the Williams Road Drainage Pump Station and the No. 1 Road North Drainage Pump Station which were approved for funding by the Province as part of the 2010 Provincial Flood Protection Program.
2. That the following projects be endorsed for submission to the 2012 Provincial Flood Protection Grant Program.
- McCallan Drainage Pump Station Upgrade
- No. 2 Road Drainage Pump Station Upgrade
- Dike Upgrade and Raise, McCallan Road to No. 2 Road
- South Dike Seismic Upgrade No. 4 Road to Shell Right of Way
- Dike Upgrade at Nelson Road Drainage Pump Station
- South Dike Upgrade Erosion Control Rip-Rap Replacement and Raise, No. 7 Road to +/-1000 metres west
- Dike Upgrade and Raise from Hollybridge Street to approximately 50 metres east of Dinsmore Bridge
3. That should any of the above submissions be successful, the Chief Administrative Officer and General Manager Engineering and Public Works be authorized to negotiate and execute the cost share agreements with the Province.

ACTING DIRECTOR FOR

[Handwritten signature]

John Irving, P.Eng. MPA
Director, Engineering
(604-276-4140)

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ROUTED TO: CONCURRENCE CONCURRENCE OF GENERAL MANAGER
Roads & Dikes..... Y [checked] N [ ]
Budgets ..... Y [checked] N [ ]

Sewerage and Drainage.....	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>			
Intergovernmental Relations & Protocol Unit.....	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>			
Parks.....	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>			
Law.....	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>			
<b>REVIEWED BY TAG</b>	YES	NO	<b>REVIEWED BY CAO</b>	YES	NO
	<input checked="" type="checkbox"/> <i>je</i>	<input type="checkbox"/>		<i>GT</i> <input checked="" type="checkbox"/>	<input type="checkbox"/>

## Staff Report

### Origin

In April 2012, the City was advised that the Province may issue a grant program similar in nature and funding level to the Emergency Management BC 2010 Flood Protection Program. The 2010 program was funded to approximately \$55 Million. Past grant program instructions have been such that projects must be endorsed by Council to be considered and this same requirement is anticipated for 2012.

This report identifies priority projects that staff recommend be submitted as part of the Province's next flood protection related grant program. This report also recommends authority be given to the Chief Administrative Officer and General Manager Engineering and Public Works to negotiate and execute the cost share agreements for projects approved for funding by the Province as part of the 2010 Flood Protection Grant Program.

### Analysis

Emergency Management BC and the Federal Building Canada Plan, Disaster Mitigation Category of Infrastructure Canada have partnered in the past to provide flood protection funding to communities throughout British Columbia. Staff have been advised by provincial representatives that there may be an additional call for grant applications in the Fall 2012 with funding expected to be in the \$50 million range. Application requirements are anticipated to be similar to what was required in 2010.

The 2010 grant program was 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. It is anticipated that the 2012 program will be of a similar nature.

The City was awarded \$3,570,000 (grant value) as part of the Emergency Management BC 2010 Flood Protection Program.

The following outlines the flood protection related projects recommended (not in priority order) for the next flood protection grant program anticipated for Fall 2012.

<b>Project</b>	<b>Description</b>
McCallan Drainage Pump Station Upgrade	Includes design and a complete renovation of the pumping system and buildings to upgrade ageing infrastructure and increase the pumping capacity approximately threefold.
No. 2 Road Drainage Pump Station Upgrade	Includes design and a complete renovation of the pumping system and buildings to upgrade ageing infrastructure, increase the pumping capacity approximately twofold and allow for dike raising related to sea level rise.
Dike Upgrade and Raise, McCallan Road to No. 2 Road	Includes a dike seismic upgrade and raise to meet minimum Provincial requirements including an allowance for sea level rise.

South Dike Seismic Upgrade No. 4 Road to Shell Road Right of Way	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.
Dike Upgrade at Nelson Road Drainage Pump Station	Includes a dike seismic upgrade and raise to meet minimum Provincial requirements including an allowance for sea level rise and pump station modifications to accommodate a raised dike.
South Dike Upgrade Erosion Control Rip-Rap Replacement No. 7 Road to ±1000 metres west	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.
Dike Upgrade and Raise from Hollybridge Street to approximately 50 metres east of Dinsmore Bridge	Includes a dike seismic upgrade and raise to meet minimum Provincial requirements including an allowance for sea level rise.

### Cost Share Agreements

Following Council endorsement of projects, staff submitted applications for flood protection grant funding in 2010 and were successful on the Williams Road and No. 1 Road North Drainage Pump Station projects. In May 2012 staff received and have been asked to execute the proposed cost share agreements from the Province for these projects. These cost share agreements include the following key terms:

- The Province will provide two-thirds (2/3) of the actual eligible costs of the projects up to \$1,270,000 for the Williams Road Drainage Pump Station and \$2,300,000 for the No. 1 Road North Drainage Pump Station;
- Projects must be started within 3 months of executing the agreement;
- Projects must be completed by March 2013;
- The City will maintain general commercial liability insurance in an amount not less than \$2 million and include the Province as an additional insured;
- The City will grant a release and indemnity in favour of the Province;
- In the event that the City sells or otherwise disposes of the works, the City must repay a portion of the grant funding to the Province; and
- The City must provide status updates to the Province at least every 30 days.

Staff anticipates that if any of the City's submissions for the 2012 Flood Protection Grant Program are successful, the cost-share agreements for the approved projects will include similar key terms, including granting of a release and indemnity by the City in favour of the Province.

Staff recommends authority be given to the Chief Administrative Officer and General Manager Engineering and Public Works to negotiate and execute the cost share agreements from the Province for the Williams Road Drainage Pump Station and the No. 1 Road North Drainage Pump Station and if any of the City's submissions for the 2012 program are successful, to negotiate and execute the cost share agreements for those projects.

#### **Financial Impact**

There is no funding impact at this time.

Staff will submit the projects identified in this report for Council consideration as part of future capital programs with the City portion of funding from the Drainage and Dikes Utility and/or Drainage DCC's.

#### **Conclusion**

The Provincial and Federal governments have partnered to provide flood protection funding to communities throughout British Columbia. It is anticipated that there will be a flood protection funding grant opportunity announcement in the Fall 2012 with funding levels and application parameters similar to what was required in 2010. Staff have prepared a list of flood protection related projects and are seeking Council endorsement in accordance with the anticipated program requirements. Further, staff are seeking Council authority for the negotiation and execution of cost share agreements approved pursuant to the two grant programs.



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