



To: Public Works and Transportation Committee  
From: John Irving, P.Eng. MPA  
Director, Engineering  
Re: 2009 Paving Program

Date: March 18, 2009  
File: 02-0775-50-3452/Vol 01

**Staff Recommendation**

That the staff report regarding the 2009 Paving Program be received for information.

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

| FOR ORIGINATING DIVISION USE ONLY |  |   |                             |  |  |
|-----------------------------------|--|---|-----------------------------|--|--|
| <b>ROUTED TO:</b>                 |  | <b>CONCURRENCE</b>                      |                             | <b>CONCURRENCE OF GENERAL MANAGER</b>                |  |
| Roads & Dykes.....                |  | Y <input checked="" type="checkbox"/>   | N <input type="checkbox"/>  |  |  |
| <b>REVIEWED BY TAG</b>            |  | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> | <b>REVIEWED BY CAO</b>                               |  |
|                                   |  |   |                             | ACTING Mike Kild <input checked="" type="checkbox"/> |  |
|                                   |  |   |                             | YES <input checked="" type="checkbox"/>              |  |
|                                   |  |   |                             | NO <input type="checkbox"/>                          |  |

## **Staff Report**

### **Origin**

In past years, staff have presented the annual paving program to the Public Works & Transportation committee for information.

### **Background**

The paving program is required to maintain our road network to current operating levels as well as reduce the need for costly repairs. Staff have developed a prioritized list of locations which are included in 2009 Paving Program.

### **Analysis**

Scope of work includes milling and the paving of roads in priority order as identified by the City's Pavement Management System (PMS) and staff. The PMS software takes into account items such as the age, structure, and current condition of the road.

Paving is tentatively scheduled to commence in April 2009 and will continue until approximately the end of October, 2009 subject to weather or uncontrollable delays. Residents and businesses impacted by construction will receive hand delivered letters in advance of construction, road advisories will be advertised in local newspapers and the schedule will be posted on the City's web site (<http://www.richmond.ca/services/rdws/projects/Projects09.htm>).

Included in Appendix A is a list of the proposed paving sites and the respective justification which are included in the 2009 Paving Program tender.

### **Discussion**

Staff continued with the initiative of adding an "Energy Related Costs" item to the 2009 paving tender, which shares the costs related to oil price fluctuations with the contractor, thereby availing the City to the lowest possible bid prices.

Staff tendered this contract early in 2009 and received unit rates lower than 2008. This can be attributed to the lower price of oil as compared to previous years as well as the economic downturn resulting in a higher contractor interest and availability to secure work.

Using the City's Pavement Management System, staff have included additional locations to the program. See appendix B for a list of the additional paving sites. See attached map for all proposed paving sites (Attachment 1).

### Financial Impact

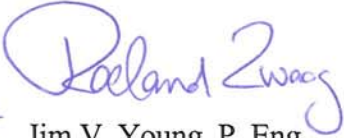
The 2009 Paving Program is funded from the City's maintenance operating budget and the Greater Vancouver Transportation Authority for the City's Major Road Network (MRN). Capital Funding will also be provided to complete those locations impacted by the respective capital projects. The breakdown is as follows.

| Available Funding                        | Amount (\$)           |
|--|-----------------------|
| Maintenance Operating Budget             | \$2,364,500.00        |
| 2009 MRN Budget                          | \$ 747,500.00         |
| 2009 Additional Funding Level            | \$ 0.00               |
| Capital Project Funding                  | \$ 96,000.00          |
| <b>Total Available Funding</b>           | <b>\$3,208,000.00</b> |
|  |                       |
| <b>Estimated Expenditures</b>            |                       |
| 2009 Paving Tender – Appendix A          | \$2,527,185.00        |
| Additional Paving Locations – Appendix B | \$ 660,000.00         |
| <b>Total Estimated Expenditures</b>      | <b>\$3,187,185.00</b> |
|  |                       |
| <b>Estimated Funding Remaining</b>       | <b>\$ 20,815.00</b>   |

It should be noted that in order to maintain our road network at its current level and minimize deterioration, the City's Pavement Management System indicates that we would require an annual budget of \$5,000,000.

### Conclusion

The 2009 Paving Program is scheduled to commence in April and the Contract is in the process of being awarded.

*per*   
Jim V. Young, P. Eng.  
Manager, Engineering D&C  
(604-247-4610)

  
Wasim Memon, C.E.T.  
Supervisor – Inspections  
(604-247-4189)



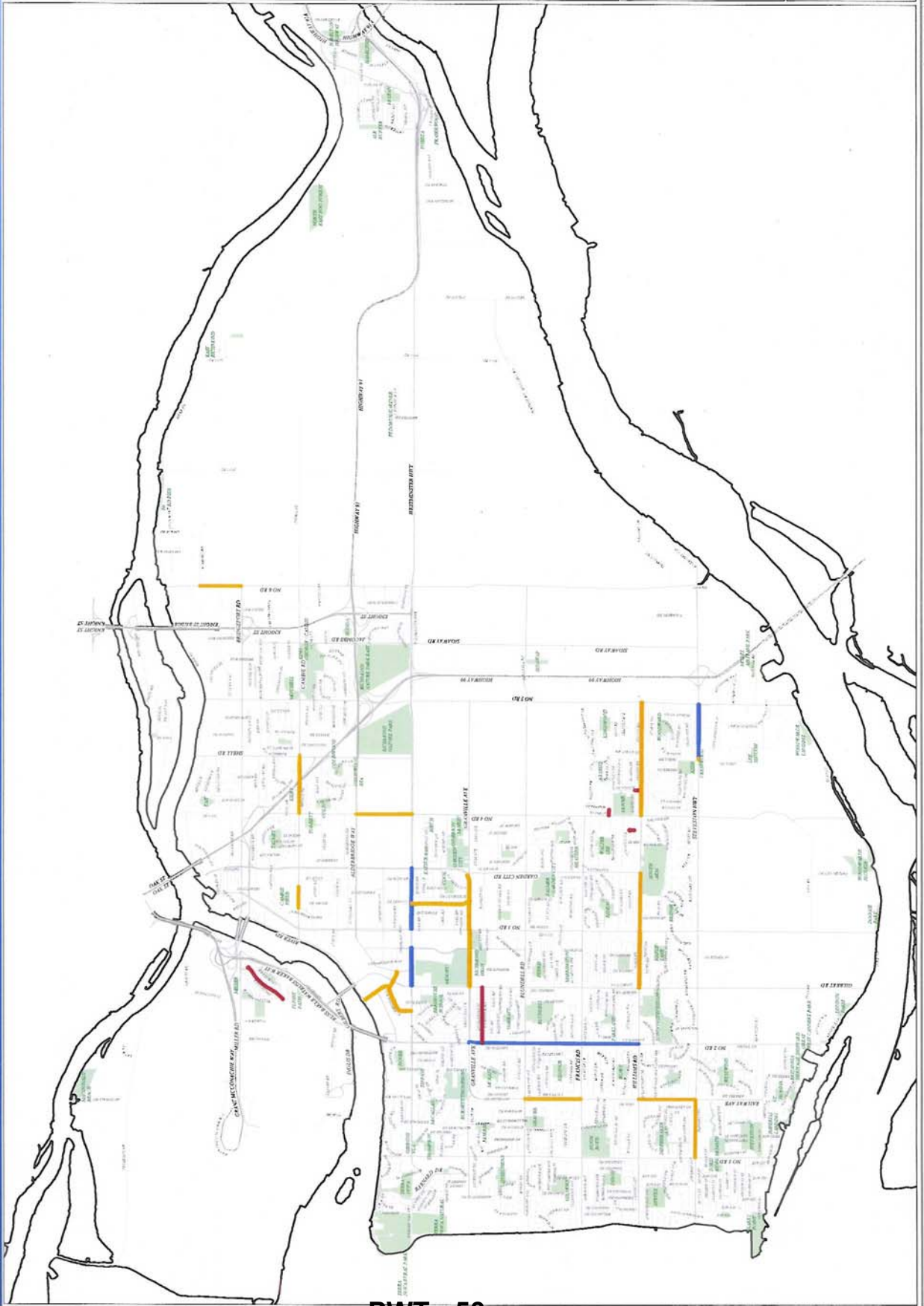
APPENDIX A      **2009 PAVING PROGRAM – PROPOSED LOCATIONS**

| LOCATION  | FAULTS                            |
|---|-----------------------------------|
| Elmbridge Way (west to Alderbridge Way including the Hollybridge Way intersection)    | - Utility cuts, pavement cracking |
| Elmbridge Way (Alderbridge Way to Gilbert Road – including Gilbert Road Intersection) | - Utility cuts, pavement cracking |
| 10000 Block of Williams Road (No.4 Road to Shell Road)                                | - Utility cuts, pavement cracking |
| 11000 Block of Williams Road (Shell Road to No.5 Road)                                | - Utility cuts, pavement cracking |
| Cooney Road (Westminster Highway to Granville Avenue)                                 | - Utility cuts, pavement cracking |
| Granville Avenue (Garden City Road to No.3 Road – west bound lanes only)              | - Utility cuts, pavement cracking |
| 7000 Block of Williams Road (Gilbert Road and No.3 Road)                              | - Utility cuts, pavement cracking |
| 4000 Block of Steveston Highway (No.1 Road to Railway Avenue)                         | - Utility cuts, pavement cracking |
| 7000 Block of Granville Avenue (No.3 Road Gilbert Road)                               | - Utility cuts, pavement cracking |
| 8000 Block of Railway Avenue (Blundell Road to Francis Road)                          | - Utility cuts, pavement cracking |
| 10000 Block Railway Avenue (Williams Road to Steveston Highway)                       | - Utility cuts, pavement cracking |
| 5000 Block of No.4 Road (Westminster Highway to Alderbridge Way)                      | - Utility cuts, pavement cracking |
| 9000 Block of Pinewell Crescent   | - Utility cuts, pavement cracking |
| 6000 Block of Comstock Road   | - Utility cuts, pavement cracking |
| Douglas Crecent (Burkeville Area)   | - Utility cuts, pavement cracking |
| Aquila Road (Williams Road to Albion Road)  | - Utility cuts, pavement cracking |
| Amethyst Avenue (No.4 Road to Arvida Drive)   | - Utility cuts, pavement cracking |
| 7000 Block of Westminster Highway (Gilbert Road to Minoru Boulevard)                  | - Utility cuts, pavement cracking |
| 11000 Block of Steveston Highway (No.5 Road to Shell Road – intersection included)    | - MRN Treatment                   |
| 8000 Block of No.2 Road (Blundell Road to Francis Road – intersection included)       | - MRN Treatment                   |
| 8000 Block of Westminster Highway (No.3 Road to Cooney Road – 4 Lanes)                | - MRN Treatment                   |
| 9000 Block of No.2 Road (Francis Road to Williams Road)                               | - MRN Treatment                   |
| 8000 Block of Westminster Highway (Garden City to Cooney Road – West bound Lanes)     | - MRN Treatment                   |
| 7000 Block of No.2 Road (Granville Avenue to Blundell Road – intersection included)   | - MRN Treatment                   |

APPENDIX B

**2009 PAVING PROGRAM – ADDITIONAL LOCATIONS**

| LOCATION  | FAULTS                            |
|---|-----------------------------------|
| Cambie Road (Hazelbridge Way to Sexsmith Road)  | - Utility cuts, pavement cracking |
| Cambie Road (No. 4 Road to Shell Road)  | - Utility cuts, pavement cracking |
| Williams Road (No. 3 Road to Garden City Road)  | - Utility cuts, pavement cracking |
| No.6 Road (Bridgeport Road to Burrows Road)   | - Utility cuts, pavement cracking |
| CN Rail Crossing<br>- (At Cambie Road and Shell Road)<br>- (At Williams Road and Shell Road)<br>- (At Steveston Hwy and Shell Road) | - Utility cuts, pavement cracking |



### Legend

Proposed Paving Locations  
by Paving Work Class

Major Road Network

Major Roads

Minor Roads

School / Park Sites

Access Road

Alley

Bridge

Bus Lane

CulDeSac

Highway

Major Collector

Minor Collector

Private

Ramp

Tunnel

Island Outline

Map Date: 08/09/08  
Map Scale: 1" = 1000'  
North Arrow: N

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