



City of Richmond

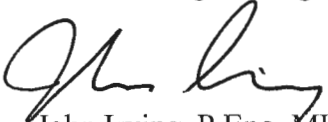
Report to Committee

To: Public Works and Transportation Committee
From: John Irving, P.Eng. MPA
 Director, Engineering
Re: **2017 Paving Program**

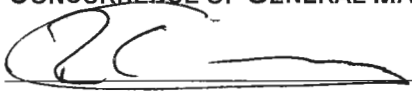
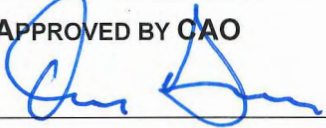
Date: September 22, 2016
File: 10-6000-01/2016-Vol
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Staff Recommendation

That the staff report titled, "2017 Paving Program," dated September 22, 2016, from the Director, Engineering be received for information.


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

Att. 3

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Roads & Construction	<input checked="" type="checkbox"/>	
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS: DW	APPROVED BY CAO 

Staff Report

Origin

This report supports Council's 2014-2018 Term Goal #6 Quality Infrastructure Networks:

Continue diligence towards the development of infrastructure networks that are safe, sustainable, and address the challenges associated with aging systems, population growth, and environmental impact.

As in previous years, staff are presenting the annual paving program report for information purposes. Staff propose to tender this program early to realize favourable asphalt pricing.

Background

The paving program is required to maintain the City's 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 the 2017 Paving Program.

Analysis

The scope of work includes the milling and paving of roads in priority order as identified by the City's Pavement Management System and staff. The Pavement Management System software takes into account items such as the age, structure, and current condition of the road. Pavement deflection data was gathered for select roads (arterial roads, the TransLink Major Road Network, recently resurfaced segments, and sections with substantial surface cracking) and is being used in the current Pavement Management System model.

The Aging Infrastructure Planning Report has identified a need for additional funding to maintain the City's roads to the current level of service. The impact of this funding gap has been partially mitigated by low paving contract prices over the past few years. This pricing is a result of early tendering of the annual paving contract and low material costs.

Included in Attachment 1 is a list of the primary paving sites included in the 2017 Paving Program. As with past years, it is possible that identified paving locations cannot be completed due to conflict with development projects that are not known at this time. Should the seasonal paving restrictions permit, any deferred primary paving locations would be replaced with the secondary paving locations. These secondary locations are listed in Attachment 2. Two maps of the proposed paving sites (Richmond West and Richmond East) are included in Attachment 3.

The tender for this year's Paving Program is scheduled to be issued to the market in November 2016. The 2017 Paving Program also includes an amendment to the City's standard tendering practices that reflects upon the City's environmental initiatives and allows for the use of recycled asphalt. The successful bidder will be encouraged to employ sustainable methodologies, practices and materials that would assist in reducing harmful emissions, in direct alignment with the City's sustainability goals.

The tender also notes that contract award is subject to approval of the 2017 Capital Budget by Council.

Financial Impact

Proposed funding for the 2017 Paving Program has been submitted as part of the 2017 Capital Budget as follows:

Proposed Funding	Amount (\$)
2017 Annual Asphalt Re-Paving Program – MRN	\$ 1,081,000
2017 Annual Asphalt Re-Paving Program – Non-MRN	\$ 3,200,000
Total Proposed Funding	\$ 4,281,000

Award of the 2017 Paving Program will occur once the 2017 Capital Budget is approved by Council.

Conclusion

The procurement process for the 2017 Paving Program is underway. Contract award and commencement of paving will occur once the 2017 Capital Budget is approved by Council.



Milton Chan, P. Eng.
Manager, Engineering Design & Construction
(604-276-4377)



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

MC:mc

- Att. 1: 2017 Paving Program – Primary Locations
2: 2017 Paving Program – Secondary Locations
3: 2017 Paving Program Proposed Locations – Richmond West and Richmond East

2017 PAVING PROGRAM – PRIMARY LOCATIONS

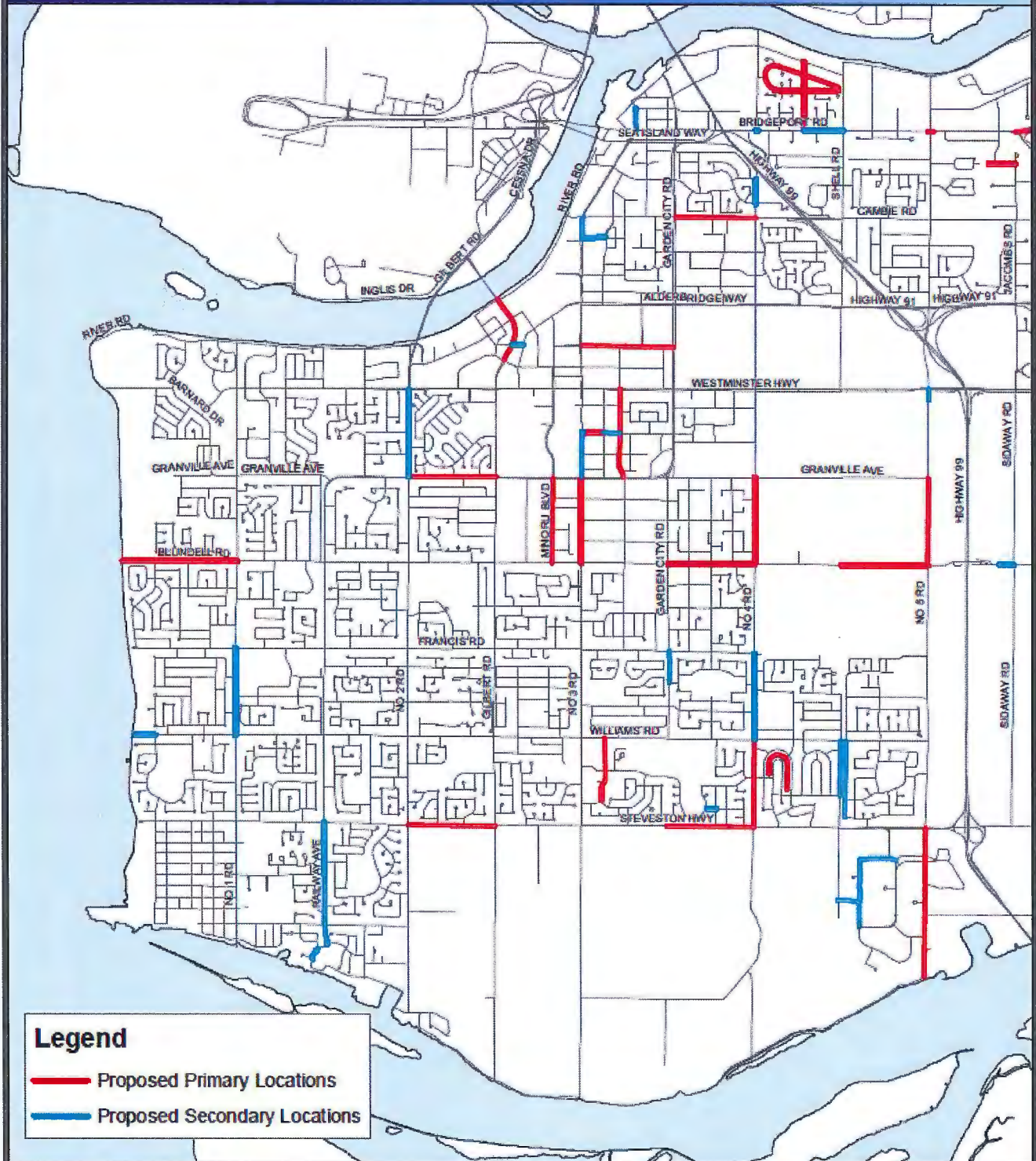
LOCATION	FAULTS
Minoru Boulevard (7000 Block)	- Utility Cuts, Pavement Cracking
No. 3 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 4 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 4 Road (10000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road (7000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road (11000 and 12000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (3000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (9000 Block)	- Utility Cuts, Pavement Cracking
Blundell Road (11000 Block)	- Utility Cuts, Pavement Cracking
Cambie Road (9000 Block)	- Utility Cuts, Pavement Cracking
Lansdowne Road (8000 Block)	- Utility Cuts, Pavement Cracking
Cook Road (No.3 Road to Buswell Street)	- Utility Cuts, Pavement Cracking
Granville Avenue (6000 Block)	- Utility Cuts, Pavement Cracking
Burrows Road (14000 Block)	- Utility Cuts, Pavement Cracking
Cooney Road (6000 Block)	- Utility Cuts, Pavement Cracking
No. 5 Road and Bridgeport Road Intersection	- MRN Treatment
Steveston Highway (6000 Block)	- MRN Treatment
Steveston Highway (9000 Block)	- MRN Treatment
Westminster Highway (21000 Block)	- MRN Treatment
Gilbert Road (River Road to Elmbridge Way)	- MRN Treatment
Leonard Road (10000 Block)	- Utility Cuts, Pavement Cracking
Bathgate Way (12000 Block)	- Utility Cuts, Pavement Cracking
McLennan Avenue	- Utility Cuts, Pavement Cracking
Gilmore Crescent	- Utility Cuts, Pavement Cracking
Finlayson Drive	- Utility Cuts, Pavement Cracking
Dennis Laneway (Maddocks Laneway to Wilkinson Road)	- Utility Cuts, Pavement Cracking
Cambie Road (14000 Block)	- Utility Cuts, Pavement Cracking

2017 PAVING PROGRAM – SECONDARY LOCATIONS

LOCATION	FAULTS
No. 2 Road (6000 Block)	- MRN Treatment
Berry Road (Mortfield Road to Southdale Road)	- Utility Cuts, Pavement Cracking
Blundell Road (Highway 99 Overpass to Sidaway Road)	- Utility Cuts, Pavement Cracking
Bridgeport Road (McLennan Avenue to Shell Road)	- Utility Cuts, Pavement Cracking
Browngate Road (No. 3 Road to Hazelbridge Way)	- Utility Cuts, Pavement Cracking
Cook Road (Buswell Street to Cooney Road)	- Utility Cuts, Pavement Cracking
Coppersmith Way (Horseshoe Way to Hammersmith Way)	- Utility Cuts, Pavement Cracking
Garden City Road (Francis Road to Glenallan Gate)	- Utility Cuts, Pavement Cracking
Hammersmith Way (Horseshoe Way to Coppersmith Way)	- Utility Cuts, Pavement Cracking
Hammersmith Gate (Shell Road to Hammersmith Way)	- Utility Cuts, Pavement Cracking
Lansdowne Road (Gilbert Road to Alderbridge Way)	- Utility Cuts, Pavement Cracking
No. 3 Road (Cook Road to Granville Avenue)	- Utility Cuts, Pavement Cracking
No. 3 Road (Cambie Road to Browngate Road)	- Utility Cuts, Pavement Cracking
No. 3 Road (Bridgeport Road to Beckwith Road)	- Utility Cuts, Pavement Cracking
No. 4 Road (Kilby Drive to Highway 99)	- Utility Cuts, Pavement Cracking
No. 4 Road at Bridgeport Road	- Utility Cuts, Pavement Cracking
No. 5 Road at Westminster Hwy	- Utility Cuts, Pavement Cracking
No. 6 Road at 800 metres north of Blundell Road	- Utility Cuts, Pavement Cracking
Railway Avenue (Westwater Drive to Britannia Drive)	- Utility Cuts, Pavement Cracking
Railway Avenue (Brunswick Drive to Garry Street)	- Utility Cuts, Pavement Cracking
No.1 Road (9000 Block)	- Utility Cuts, Pavement Cracking
No.4 Road (9000 Block)	- Utility Cuts, Pavement Cracking
No.6 Road (8000 Block)	- Utility Cuts, Pavement Cracking
Westminster Highway North (Fraserwood Place to Muir Drive)	- Utility Cuts, Pavement Cracking
Williams Road (west leg of Springmont Drive to dyke)	- Utility Cuts, Pavement Cracking
Railway Avenue (11000 Block)	- Utility Cuts, Pavement Cracking
Shell Road (Maddocks Road to Williams Road)	- Utility Cuts, Pavement Cracking
Shell Road (10000 Block)	- Utility Cuts, Pavement Cracking



2017 Paving Program Proposed Locations Richmond West




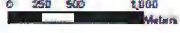
Legend

- Proposed Primary Locations
- Proposed Secondary Locations

NOTE:
The information shown on this map is compiled from various sources and the City makes no warranties, expressed or implied, as to the accuracy or completeness of the information.
Users are reminded that lot sizes and legal description must be confirmed at the Land Title office in New Westminster.
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NORTH


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 Meters

