



City of Richmond

Report to Committee

To: Public Works and Transportation Committee

Date: September 18, 2017

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

File: 10-6050-01/2017-Vol
01

Re: 2018 Paving Program

Staff Recommendation

That the staff report titled, "2018 Paving Program," dated September 18, 2017, from the Director, Engineering be received for information.

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

Att. 3

REPORT CONCURRENCE		
ROUTED TO: Roads & Construction	CONCURRENCE <input checked="" type="checkbox"/>	CONCURRENCE OF GENERAL MANAGER
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS: CJ	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 that will be included in the 2018 Paving Program.

Analysis

The scope of work includes the milling and paving of roads and asphalt surfaces in priority order as identified by the City's Pavement Management System and staff. This also includes preparatory work such as curb and gutter repairs. The Pavement Management System software takes into account items such as the age, structure and current condition of the road. Updated pavement deflection data is currently being gathered to ensure that the Pavement Management System model results are accurate. The data is being gathered on an assortment of road types (arterial roads, the TransLink Major Road Network, recently resurfaced segments, and sections with substantial surface cracking).

Included in Attachment 1 is a list of the primary paving sites included in the 2018 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 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. To address the funding gap in the short term, as part of the 2018 Capital Budget process staff have submitted a \$1 million Asphalt Repaving Backlog Management Capital Submission for Council consideration. If this submission is adopted by Council as part of the 2018 Capital Budget, the list of paving locations will be adjusted to reflect the additional funding.

The tender for this year's Paving Program is scheduled to be issued to the market in November 2017. In recent years, achieving contractor completion of the paving program within the dates

specified in the contract has been an ongoing issue. To mitigate this, the 2018 Paving Program will be tendered in two parts. The tender will contain provisions stating that if a single contractor is the successful bidder for both parts, that a completely separate work crew will be required for each part of the program.

The 2018 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 will also note that the contract award is subject to approval of the 2018 Capital Budget by Council.

Financial Impact

Proposed funding for the 2018 Paving Program has been submitted as part of the 2018 Capital Budget as follows:

Proposed Funding	Amount (\$)
2018 Annual Asphalt Re-Paving Program – MRN	\$ 1,549,000
2018 Annual Asphalt Re-Paving Program – Non-MRN	\$ 2,982,000
Total Proposed Funding	\$ 4,531,000

Award of the 2018 Paving Program will occur once the 2018 Capital Budget is approved by Council.

Conclusion

The procurement process for the 2018 Paving Program is underway. Contract award and commencement of paving will occur once the 2018 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: 2018 Paving Program – Primary Locations
- 2: 2018 Paving Program – Secondary Locations
- 3: 2018 Paving Program Proposed Locations – Richmond West and Richmond East

2018 PAVING PROGRAM – PRIMARY LOCATIONS

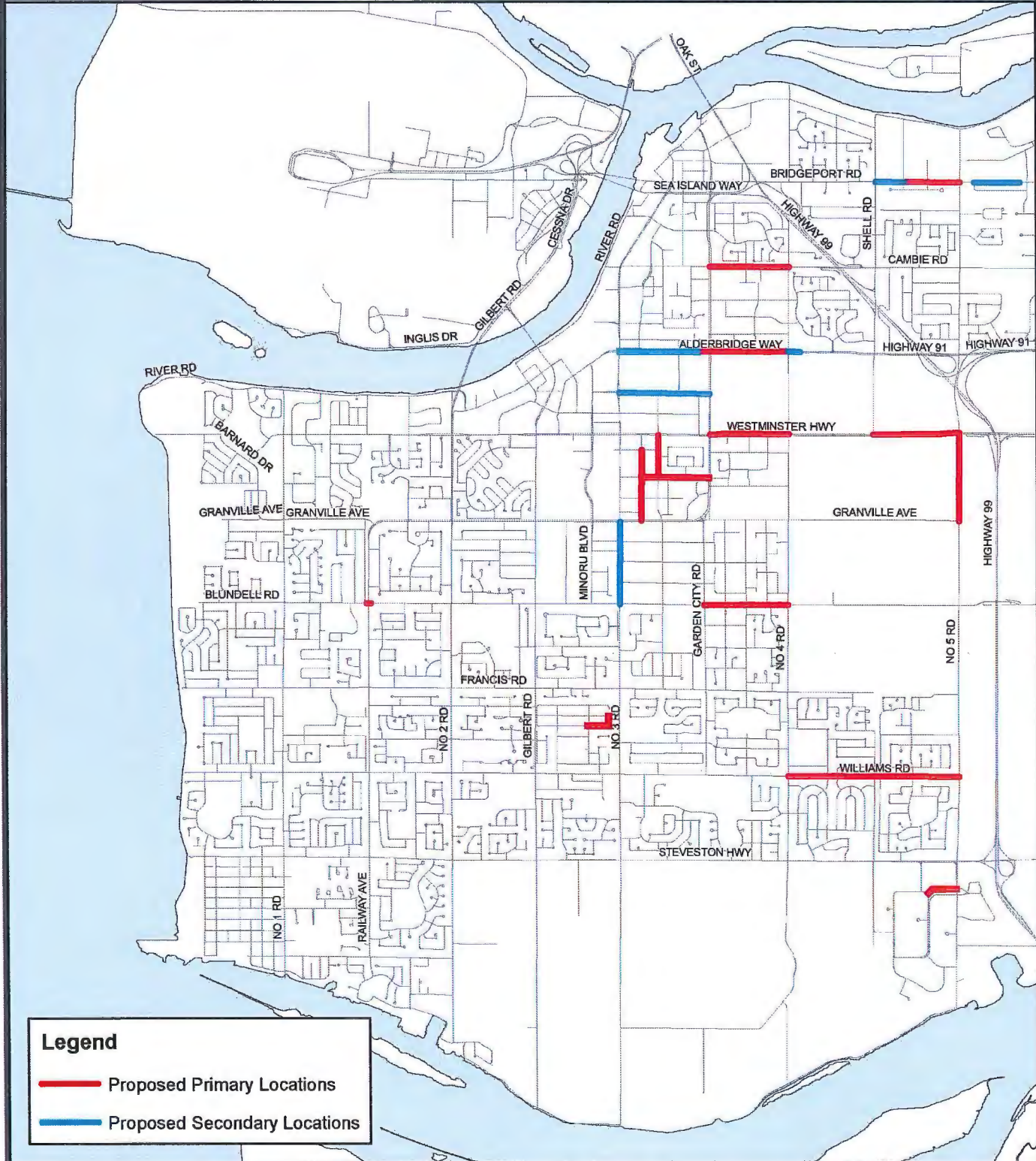
Location	Road Type
Belair Drive (Herbert Rd to Broadmoor Blvd)	Non-MRN
Blundell Road (9000 Block)	Non-MRN
Blundell Road & Railway Avenue Intersection	Non-MRN
Buswell Road (Granville Ave to Saba Rd)	Non-MRN
Cambie Road (9000 Block)	Non-MRN
Cambie Road (14000 Block)	Non-MRN
Cook Road (Buswell St to Garden City Way)	Non-MRN
Cooney Road (Westminster Hwy to Cook Rd)	Non-MRN
Horseshoe Way (No. 5 Rd to Coppersmith Way)	Non-MRN
No. 5 Road (6000 Block)	Non-MRN
Williams Road (10000 Block)	Non-MRN
Williams Road (11000 Block)	Non-MRN
Alderbridge Way (9000 Block)	MRN
Bridgeport Road (Simpson Rd to No. 5 Rd)	MRN
Westminster Highway Westbound Lanes (9000 Block)	MRN
Westminster Highway (11000 Block)	MRN
Westminster Highway North of Hwy 91 (CN Crossing to Oliver Dr)	MRN

2018 PAVING PROGRAM – SECONDARY LOCATIONS

Location	Road Type
Blundell Road (17000 Block)	Non-MRN
Blundell Road (18000 Block)	Non-MRN
Bridgeport Road (Viking Way to No. 6 Rd)	Non-MRN
Fraserwood Way (Fraserwood Pl to Dyke Rd)	Non-MRN
Lansdowne Road (8000 Block)	Non-MRN
No. 3 Road (7000 Block)	Non-MRN
No. 6 Road (Westminster Hwy to Francis Rd Corridor)	Non-MRN
No. 6 Road (Bridgeport Rd to River Rd)	Non-MRN
Bridgeport Road (Shell Rd to Simpson Rd)	MRN
Bridgeport Road (Vickers Way to Sweden Way)	MRN
Alderbridge Way (8000 Block)	MRN
Alderbridge Way (east of No. 4 Rd)	MRN



2018 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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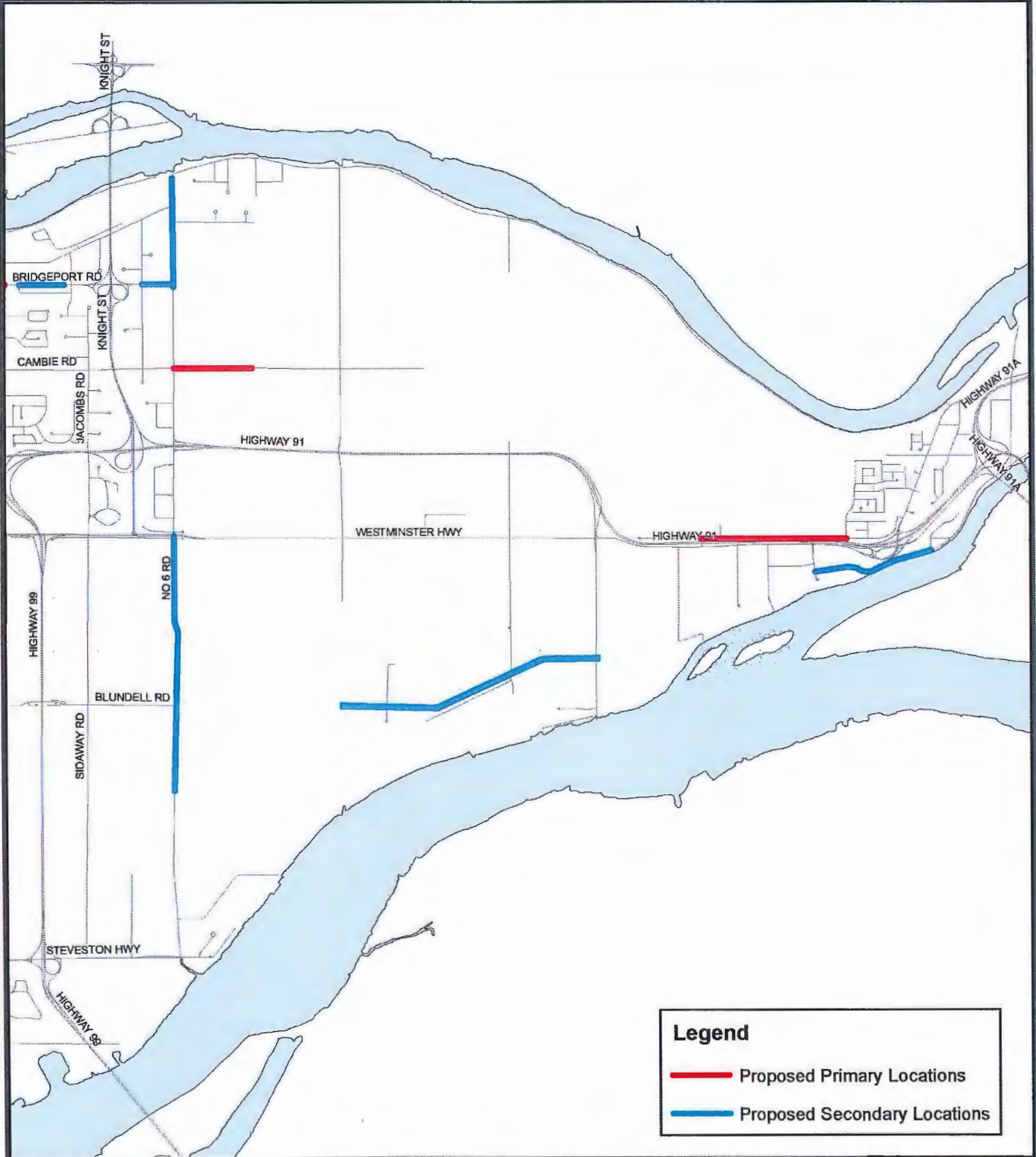
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NORTH

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2018 Paving Program Proposed Locations Richmond East



Legend

- Proposed Primary Locations
- Proposed Secondary Locations

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Print By: J-hannan
 Print Date: September 2017

