



City of Richmond

Report to Committee

To: Public Works and Transportation Committee

Date: September 16, 2019

From: Milton Chan, P.Eng
Acting Director, Engineering

File:

Re: Proposed 2020 Paving Program

Staff Recommendation

That the staff report titled, "Proposed 2020 Paving Program," dated September 16, 2019, from the Acting Director, Engineering be received for information.

Milton Chan, P.Eng
Acting Director, Engineering
(604-276-4377)

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: 	APPROVED BY CAO

Staff Report

Origin

This report supports Council's Strategic Plan 2018-2022 Strategy #1 A Safe and Resilient City:

Enhance and protect the safety and well-being of Richmond.

1.2 Future-proof and maintain city infrastructure to keep the community safe.

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 2020 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 has been gathered on an assortment of road types (arterial roads, the TransLink Major Road Network, recently resurfaced segments, and sections with substantial surface cracking) to ensure that the Pavement Management System model results are accurate. The deflection data has been analyzed and included in the updated model.

Included in Attachment 1 is a list of the primary paving sites included in the 2020 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.

In most years, some paving work is required to address unforeseen road condition issues that arise during the year, such as settling utility trenches. These are added to the paving program throughout the course of the year. Since the specific locations are not known at this time, they are not shown on the attached location maps.

Prior to 2018 achieving contractor completion of the paving program within the dates specified in the contract had been an ongoing issue. Since 2018, the Paving Program included a provision for schedule based liquidated damages, resulting in improved responsiveness from the paving contractor. This clause will be included in the 2020 paving tender to help ensure timely completion of the paving program.

The tender for the 2020 Paving Program is scheduled to be issued to the market in November 2019.

The 2020 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 2020 Capital Budget by Council.

Financial Impact

Capital submissions for the 2020 Paving Program are being prepared as part of the 2020 Capital Budget as follows:

Proposed Funding	Amount (\$)
2020 Annual Asphalt Re-Paving Program – MRN	\$ 1,558,050
2020 Annual Asphalt Re-Paving Program – Non-MRN	\$ 3,287,660
Total Proposed Funding	\$ 4,845,710

Should Council approve the 2020 Capital Budget, award of the 2020 Paving Program will follow.

Conclusion

The procurement process for the 2020 Paving Program is underway. Contract award and commencement of paving will occur once the 2020 Capital Budget is approved by Council.



per Eric Sparolin, P. Eng.
Acting Manager,
Engineering Design & Construction
(604-247-4915)



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

ES:vm

- Att. 1: 2020 Paving Program – Primary Locations
- 2: 2020 Paving Program – Secondary Locations
- 3: 2020 Paving Program Proposed Locations – Richmond West and Richmond East

2020 PAVING PROGRAM – PRIMARY LOCATIONS

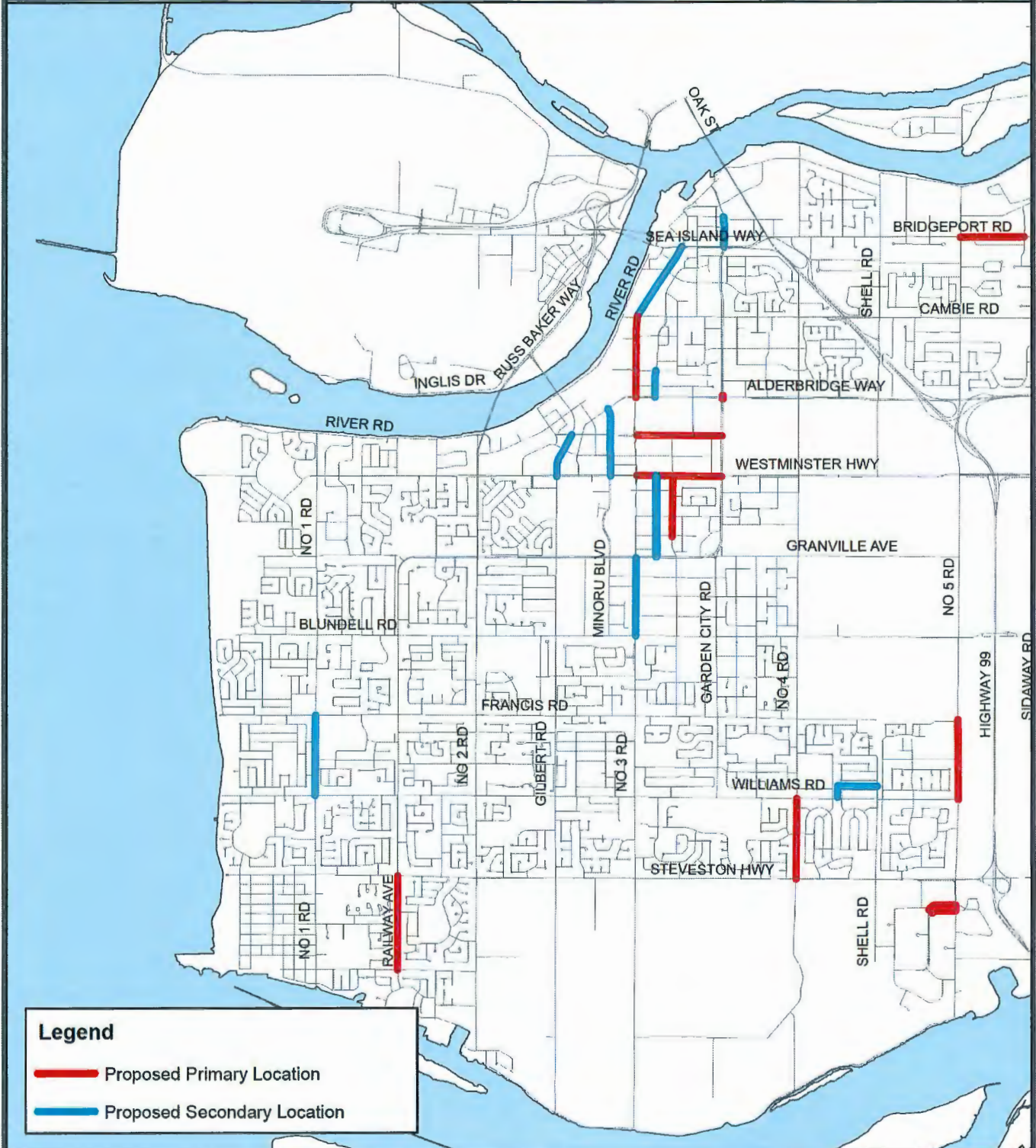
Location	Road Type
Blundell Road (17000 Block)	Non-MRN
Blundell Road (18000 Block)	Non-MRN
Bridgeport Road (No. 5 Road to Sweden Way)	MRN
Cambie Road (13000 Block)	MRN
Cooney Road (Westminster Highway to Park Road)	Non-MRN
Fraserwood Place (Westminster Highway to Gordon Way)	Non-MRN
Fraserwood Way (Fraserwood Place to Dyke Road)	Non-MRN
Garden City Road and Alderbridge Way Intersection	MRN
Horseshoe Way (No. 5 Road to Coppersmith Way)	Non-MRN
Lansdowne Road (8000 Block)	Non-MRN
No. 3 Road (4000 Block)	MRN
No. 4 Road (10000 Block)	Non-MRN
No. 5 Road (9000 Block)	Non-MRN
No. 6 Road (Bridgeport Road to River Road)	Non-MRN
Railway Avenue (11000 Block)	Non-MRN
Westminster Highway (8000 Block)	MRN
Westminster Highway (Smith Crescent to Boundary Road)	MRN

2020 PAVING PROGRAM – SECONDARY LOCATIONS

Location	Road Type
Anahim Lane (Aragon Lane to Shell Road)	Non-MRN
Buswell Street (Westminster Highway to Granville Avenue)	Non-MRN
Gilbert Road (Westminster Highway to Lansdowne Road)	MRN
Great Canadian Way (Beckwith Road to Sea Island Way)	Non-MRN
Hazelbridge Way (Alderbridge Way to Leslie Road)	Non-MRN
Knight-Bridgeport S to E Loop	MRN
Minoru Boulevard (5000 Block)	Non-MRN
No. 1 Road (9000 Block)	Non-MRN
No. 3 Road (3000 Block)	MRN
No. 3 Road (7000 Block)	Non-MRN
No. 6 Road (Westminster Highway to Francis Road Corridor)	Non-MRN
Westminster Highway (Highway 91 to McLean Avenue)	MRN



2020 Paving Program Proposed Locations Richmond West



Legend

- Proposed Primary Location
- Proposed Secondary Location

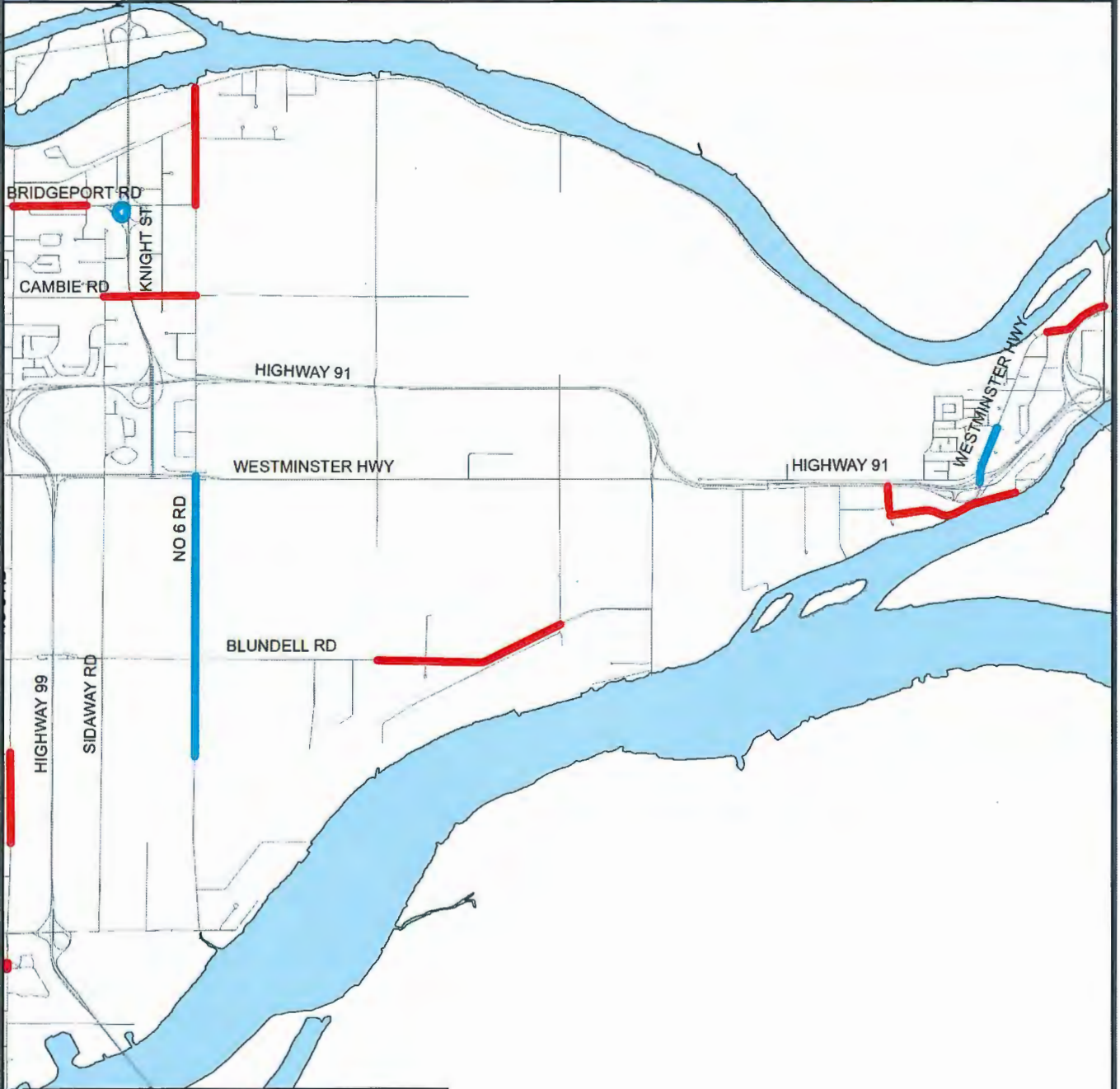
Note:
The information shown on this map is compiled from various sources and the City makes no warranties, expressed or implied, as to the accuracy or completeness of the information.
Users are reminded that lot sizes and legal description must be confirmed at the Land Title office in New Westminster.
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Print By: ncheah
Print Date: September 2019



NORTH



2020 Paving Program Proposed Locations Richmond East



Legend

-  Proposed Primary Location
-  Proposed Secondary Location

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