

THE CORPORATION OF THE  
**CITY OF WHITE ROCK**  
CORPORATE REPORT



**DATE:** November 6, 2023

**TO:** Mayor and Council

**FROM:** Corrine Haer, P.Eng., Manager, Engineering

**SUBJECT:** Contract Award – Marine Drive and Nichol Road Intersection Improvements

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**RECOMMENDATIONS**

THAT Council receive the corporate report dated November 6, 2023, from the Director of Engineering and Municipal Operations, titled “Contract Award - Marine Drive and Nichol Road Intersection Improvements” for consideration; and

1. Approve the award of the Marine Drive and Nichol Road Intersection Improvements to Lafarge Canada Inc. in the amount of \$480,291 (excluding GST);
  2. Approve the award of engineering inspection and engineering support for the Marine Drive and Nichol Road Intersection Improvements to R.F. Binnie & Associates Ltd. in the amount of \$30,000 (excluding GST);
  3. Authorize the pre-approved contingency in the amount of \$126,128 (approximately 25%) to support the project; and
  4. Authorize the Director of Engineering and Municipal Operations to execute all contract documentation required for the project.
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**EXECUTIVE SUMMARY**

The purpose of this corporate report is to obtain Council approval to award the Marine Drive and Nichol Road Intersection Improvements Project to Lafarge Canada Inc. in the amount of \$480,291.00 (excluding GST).

This project includes geometric reconfiguration of the intersection focused on enhancing pedestrian safety and addressing speeding concerns identified by residents through the City’s Integrated Transportation & Infrastructure Management Plan (ITIMP) outreach. Furthermore, this project will construct drainage improvements and sanitary improvements as identified in the City’s 2019 Sewer Master Plan and required due to approved development upstream.

**INTRODUCTION**

The City has been in receipt of several complaints over the years regarding the fact that often vehicles do not stop for pedestrians at the crosswalk located at Marine Drive and Nichol Road. In addition, several concerns were brought up regarding speeding in the area during public engagement completed prior to completion of the City’s ITIMP. This project addresses these

concerns and is in line with the City's ITIMP that directs the City to create safe, welcoming and comfortable places that attract pedestrians and make walking enjoyable and also encourages the improvement of intersections that have been identified as having safety, operational or geometric issues.

Working with a consultant, staff have come up with a design that makes the intersection safer while upgrading the infrastructure in the intersection at the same time in order to meet future capacity demands in line with the City's 2019 Sewer Master Plan.

Improvements in the intersection (Attachment A) include:

Replace existing crosswalk that consists of two solid lines with a zebra crosswalk to give pedestrians the right of way when crossing and:

- Relocate the crosswalk to the east side of the intersection so that pedestrians are no longer led into a barrier curb with no letdown or sidewalk;
- Install a curb bulge in the north east and north west corners of the intersection to reduce the crossing distance for pedestrians and also naturally slow down approaching drivers;
- Install a curb bulge to reduce the cross distance for pedestrians and increase pedestrian visibility;
- Install a stop-controlled crosswalk across Nichol Road to connect to the new relocated crosswalk on the east side of the intersection crossing Marine Drive;
- Replace the existing bus stop with accessible concrete bus pad and additional bus signage;
- Install additional bike signage and bike markings to enhance cycling experience.
- Removal of existing 200mm asbestos concrete sanitary main through the intersection and upsize with a 300mm PVC main and associated infrastructure; and
- Installation of additional drainage catch basins.

## **ANALYSIS**

R.F. Binnie & Associates Ltd. was retained to design the project. Subsequently, a construction tender (WR23-008 Marine and Nichol Intersection Improvements Construction) was issued to the market on BC Bid with a tender submission closing date of May 12, 2023. The City received one bid and the result is summarized in the table below.

**Table 1 - Bid Summary**

<b>Contractor</b>	<b>Price (excluding GST)</b>
Lafarge Canada Inc.	\$ 480,291

Staff recommend we proceed with awarding the construction of the project to Lafarge.

## **FINANCIAL IMPLICATIONS**

The project is included in the 2023 Financial Plan and has additional funding available through development driven cash in lieu (14022 North Bluff Road) and Development Cost Charges. Additionally, ICBC will allocate \$15,000 towards the project once a firm construction date is identified.

A summary of the project budget is as follows:

**Table 2 – Project Budget**

	<b>Total</b>
General Fund (01-2-40075)	\$339,000
Sanitary Fund (03-2-40075)	\$100,000
Drainage Fund (05-2-40075)	\$50,000
Sanitary Cash In Lieu	\$111,200
Sanitary Development Cost Charges	\$26,400
ICBC Grant	\$15,000
<b>Total available budget</b>	<b>\$641,600</b>
Spent to date (as of October 23, 2023)	\$5,181
Engineering fees (R.F. Binnie & Associates)	\$30,000
Construction (Lafarge Canada Ltd.)	\$480,291
<b>Subtotal</b>	<b>\$515,472</b>
Contingency (approx. 25%)	\$126,128
<b>Total project cost</b>	<b>\$641,600</b>

### **LEGAL IMPLICATIONS**

No legal implications are anticipated. Staff request authorization for the Director, Engineering and Municipal Operations to execute all contract documentation required for the project.

### **ALIGNMENT WITH STRATEGIC PRIORITIES**

This project is in alignment with the Infrastructure Strategic Priority that identifies that the City plan, build and maintain infrastructure to enhance quality of life and civic service delivery while mitigating and adapting to environmental impacts. Specifically, this project ensures future infrastructure resiliency by making decisions through a long-term lens.

### **OPTIONS / RISKS / ALTERNATIVES**

The following alternate options are available for Council's consideration:

1. Not approve the recommendation to award the Marine Drive and Nichol Road Intersection Improvements Project to Lafarge Canada Inc. This may result in reduced safety for pedestrians utilizing this intersection and potential long term sewer capacity issues.

### **CONCLUSION**

Staff recommends that the Marine Drive and Nichol Road Intersection Improvements Project be awarded to Lafarge Canada Inc. in the amount of \$480,291 (excluding GST) and request a preauthorized contingency in the amount \$126,128 (approximately 25% of the project cost) to support the project. Additionally, staff seek Council's approval to enable the Director of

Engineering & Municipal Operations to have authorization to execute all contract documentation required for the project to proceed.

Respectfully submitted,



Corrine Haer, P.Eng.  
Manager, Engineering

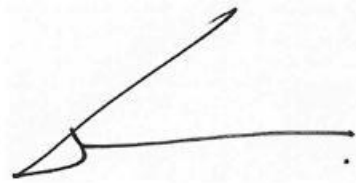
Approved by,



Jim Gordon, P.Eng.  
Director, Engineering & Municipal Operations

**Comments from the Chief Administrative Officer**

I concur with the recommendations of this corporate report.



Guillermo Ferrero  
Chief Administrative Officer

Appendix A: Intersection Improvements

## APPENDIX A

## Intersection Improvements

