



City of Richmond

Report to Committee

To: Public Works and Transportation Committee **Date:** February 25, 2004
From: Robert Gonzalez, P.Eng.
Director, Engineering **File:** 6340-20-P.04202
Re: Award of 2004 Paving Contract T.1560

Staff Recommendation:

That the report regarding award of Contract T.1560 – 2004 Asphaltic Concrete Paving to the lowest bidder, Columbia Bitulithic Limited, be received for information.

Robert Gonzalez, P.Eng.
Director, Engineering
(4150)

Att. 1

FOR ORIGINATING DIVISION USE ONLY

CONCURRENCE OF GENERAL MANAGER

Staff Report

Origin

The asphaltic concrete paving program is part of the proposed 2004 operating budget. This is seasonal work and therefore it is important to expedite this program in order to have it commence at the earliest possible time. The typical paving season is between April and October.

Background

The scope of work includes milling and the paving of roads in priority order as identified by the newly implemented Pavement Management System (PMS) and staff.

Paving is tentatively scheduled to commence on April 15, 2004 and will continue until October 15, 2004, subject to weather or uncontrollable delays. A detailed construction schedule will be forwarded to Mayor and Councillors as soon as it is available. In addition, residents and businesses impacted by construction will receive hand delivered letters in advance of construction and road advisories will be advertised in local newspapers.

Included in Appendix A is a list of the proposed paving sites and the respective justification.

Tender Results

The following five tenders were opened on January 23, 2003, and have been reviewed by Engineering Staff. Tenders were as follows:

TENDER	TOTAL TENDER AMOUNTS
Columbia Bitulithic Ltd.	\$1,816,311.22
Imperial Paving Ltd.	\$1,869,371.65
Winvan Paving Ltd.	\$1,913,248.25
J.Cewe Ltd	\$1,940,617.00
BA Blacktop Ltd	\$1,942,720.66

Note that the public tenders are accessible through the City's web site and results are now posted on the BC Bid web site.

Analysis

All tenders were checked for legal or mathematical errors. The low bidder for contract T.1560 is Columbia Bitulithic Limited. This contractor has extensive relevant experience and has been the paving contractor for the City in past years.

Financial Impact

Funding Required	\$ 2,016,311.22
City Operational Funding Available	\$ 1,714,200.00
Additional Funding Sources (MRN*)	\$ 770,000.00
Developers Contribution	\$ 58,436.00
Capital Projects	<u>\$ 27,600.00</u>
Total Available Funding	<u>\$ 2,570,236.00</u>
Balance	\$ 553,924.78

* Represents funding from the Greater Vancouver Transportation Authority for the City's Major Road Network.

Discussion

In prioritizing the list of roads to be repaved in 2004, staff based their decisions upon available funding as well as road segments prioritized in the PMS 5-year rehabilitation program. It should be noted that in order to maintain our road network at its current level and minimize deterioration, our PMS shows an annual budget in excess of \$3.0 million would be required. However given present funding levels this is not possible. In early summer staff intend to add to the 2004 paving program additional roads from our PMS list once we have re-assessed the highest priorities based on the extent of damage done during the winter to the road network. The remaining \$553,924.78 balance will be used to fund the paving of these additional roads. This will ensure the best use of available funds.

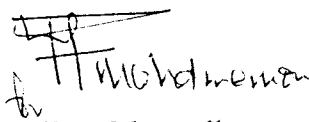
As noted in Appendix A, available operational funding is currently \$1.71 million. In addition, the foregoing projected funding requirements are based upon 2002 asphalt costs. Asphalt prices are directly related to petroleum costs and have risen 46% increase since 2000. Furthermore, prices and will most likely continue to increase over the next few years.

Conclusion

The tender being awarded is the lowest of the tenders received. Therefore the City is in the process of entering into a contract with Columbia Bitulithic Limited.



Tony Hillan
Manager, Roads & Construction Services
(L.1207)



Tom Maxwell
Supervisor - Inspections
(L.4189)

RG:tm

APPENDIX A

COST BREAKDOWN: CONTRACT T.1560	
Tender	\$ 1,816,311.22
City Works Required	\$ 100,000.00
Contingency (5%)	\$ 100,000.00
Estimated Total Project Cost	\$ 2,016,311.22

Funding Sources are as follows:

Funding Source T.1560	Budget Available	Total Package Funding Required	Remaining Unallocated Funds
Maintenance Operating Budget Acct. No. 4992-10-411-41730-0000	\$1,714,200.00	\$1,183,365.22	\$530,924.78*
2003 MRN (Major Road Network) Acct. No. 4994-10-414-41310-0000	\$770,000.00	\$747,000.00	\$23,000.00*
Developers Contribution (Acct. No. 2217-10-0000)	\$58,436.00	\$58,436.00	
Capital Paving	\$27,600.00	\$27,600.00	
Total	\$2,570,236.00	\$2,016,311.22	\$553,924.78

*Remaining funds will be used to fund the next priority road repaving project.

APPENDIX B

CITY OF RICHMOND PUBLIC WORKS CAPPING PROGRAM

LOCATION	FAULTS
Steveston Hwy. Garden City to No. 4 Rd.	<ul style="list-style-type: none"> - severe utility cuts - low valves - transverse cracking - some longitudinal cracking
Steveston Hwy. Gilbert Rd. to No. 3 Rd	<ul style="list-style-type: none"> - some low utility cuts - severe transverse cracking - several alligatored areas - severe longitudinal cracking
Westminster Hwy. No. 5 Rd. to Hwy 99	<ul style="list-style-type: none"> - severe longitudinal cracking - several alligator cracked areas - some transverse cracking
Westminster Hwy. Shell Rd. to No. 5 Rd.	<ul style="list-style-type: none"> - Utility trench cracking
Francis Rd. Gilbert Rd. to No. 3 Rd.	<ul style="list-style-type: none"> - severe utility cuts - severe longitudinal cracking - minor transverse cracking
Cedarbridge Way Embridge Way to Alderbridge Way	<ul style="list-style-type: none"> - some transverse cracking - Surface fatigue
Hazelbridge Way Alderbridge Way to Leslie Rd.	<ul style="list-style-type: none"> - utility cuts - transverse cracking - longitudinal cracking
Cambie Rd. Shell Rd. to No. 5 Rd.	<ul style="list-style-type: none"> - numerous utility cuts - transverse cracking - Surface erosion
River Rd. No. 7 Rd. to No. 8 Rd.	<ul style="list-style-type: none"> - alligator cracking - transverse cracking
Granville Ave. Garden City to No. 4 Rd.	<ul style="list-style-type: none"> - alligator cracking severe - some base failure - transverse cracking - longitudinal cracking
Williams Rd. No. 1 Rd. to Railway Ave.	<ul style="list-style-type: none"> - Vibration Complaints - utility cuts - surface erosion
Alderbridge Way Westminster Hwy to Elmbridge Way	<ul style="list-style-type: none"> - second lift asphalt required

No. 5 Rd. Williams Rd. to Kingsbridge Dr.	- utility cut -
No. 5 Rd. Kingsbridge Dr. to 340m North	- utility cut
Wellmond Rd. Trumond Ave to Barmond Ave	- vibration complaints - multiple utility trenches
Barmond Ave. Kirkmond Rd. to Wellmond Ave	- several utility trenches - transverse cracking
Lamond Ave. Jesmond Ave to Florimond Rd.	- alligator cracking - transverse cracking
Sedgemoind Pl. Florimond to Cul de Sac	- root damaged curbs - utility trenches - surface erosion
Dunford Rd. Garry St. to Dunfel Rd.	- Second lift paving
Dunfel Rd. Dunford Rd. to 40m east	- Second lift paving