

**STAFF REPORT:           Engineering & Public Works Department**



**REPORT TO:           Engineering & Public Works Committee**  
**MEETING DATE:     January 29, 2008**  
**REPORT NO.:         EPW.08.06**  
**SUBJECT:            Contract No. TBM-2007-20 Orchard Drive and Applevale Court, Additional Construction Costs**  
  
**PREPARED BY:       Jim McCannell, Manager of Roads & Drainage Division**

**A. Recommendation**

THAT Council approves increasing the contract value of Contract No. TBM-2007-20 Orchard Drive and Applevale Court by \$13,547.20 from \$275,860.91 to \$289,408.11, not including GST.

**B. Background**

Orchard Drive and Applevale Court were identified within the 2002 Road Needs Study (Section 780) as requiring resurfacing. The existing road surface was broken and required additional material to support the road asphalt. To answer this, cold-in-place asphalt was selected. This process has re-used the existing material on site and provided a 100mm base course to support the surface lift of 40 mm of new HL3 asphalt.

The original road had asphalt gutters. As part of these works the asphalt gutter was removed and replaced with a concrete curb. The asphalt gutter and material beneath was removed and lifted out with a grinder. The surrounding gravel along with the grass and other material were picked up and hauled off site. This material was taken to The Town's Landfill Site and stockpiled. The materials are being crushed, screened and sorted under a separate contract and used as granular material on other Town projects.

This process removed more material from the site than was anticipated. As a result additional Granular "A" had to be purchased, at the tendered unit rate of \$20.83 to fill the area under the curb. This volume of material was not included in the original quantity estimates. The amount of "A" gravel in the contract was estimated at 150 tonnes for a price of \$3,124.50. To complete the project, the Contractor placed 656.2 tonnes of material for a price of \$13,668.65. The additional cost to the project for this is \$13,668.65 – \$3,124.50= \$10,544.15.

No further Granular 'A' material was authorized for use on this project.

An additional 300 m3 or 600 tonnes of Granular 'A' material was required for road construction. To reduce costs, asphalt grindings were used. This material was stockpiled on another Town site. Town trucks hauled the material. The Contractor supplied the loader at a cost of \$1,470.00 for the day. This item was paid for under Change Order #4.

During the course of construction, it was found that the spacing (width across the road) between the storm sewer catch basins (CB) was not consistent along Orchard Park Drive. This caused problems with the placement of the curb and affected the catch basin frame and grates. After reviewing the layout and condition of the CB's, the best option was to purchase new frame and grates at a cost of \$5,300.00 (Change Order #2). This also allowed the grates to be updated to the more bicycle friendly style. The old frame and grates were taken to Ravenna Public Works Yard to be used in other locations. Additional survey work was required to address the layout of the curb at a cost of \$1,431.88 (Change Order #3).

Change Order #1 was to adjust the entrance at Orchard Park Drive and Alfred Street for proper alignment and tie into Alfred Street, for a cost of \$2,000.00.

The anticipated final construction costs for this project are \$284,408.11 as detailed on the Estimated Final Quantity and Cost Table as provided in Attachment #1. These events have caused the project to run over the approved contract value by (284,408.11 - 275,860.91) \$8,547.20.

Staff recommends a further Contingency of \$5,000.00 in the event of any other claims against this project, for a total of \$13,547.20 additional funds.

**Construction Costs**

Approved Contract Value	\$275,860.91
Value of works over the approved value	+\$8,547.20
Additional contingency	+\$5,000.00
	=====
Total funds that require approval	<b><u>\$ 13,547.20</u></b>
Anticipated Total Cost of Construction	<b><u>\$289,408.11</u></b>

**Engineering Costs**

Cost incurred to date	\$12,427.29
Anticipated costs to completion	+\$5,000.00
	=====
Total Engineering costs	\$17,427.29

**Project Costs**

	\$289,408.11
	+ \$17,427.29
	=====
	\$306,835.40

2007 Capital Budget \$350,000.00

Remaining Budget Capital \$ 43,164.60 (under budget)

To date, the approved payment to Seeley and Arnill is \$275,768.35, less holdbacks.

### **C. The Blue Mountains' Strategic Plan**

This work addresses Strategic Plan Goal #2 "Addressing the Town's Municipal infrastructure needs".

### **D. Budget Impact**

The Project Costs are less than the 2007 Capital Budget by \$43,164.60.

### **E. Attached**

1. Estimated Final Quantity and Cost Table.

Respectfully submitted,

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Jim McCannell  
Manager of Roads & Drainage Division

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Reg Russwurm  
Director, Engineering & Public Works