

## 9. AVON RIVER BRIDGE LIGHTING PROJECT

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The purpose of this report is to provide the Arts, Culture and Heritage Committee with an update on the lighting of the bridges on the Avon River.

### REPORT PERIOD ENDING 21 MARCH 2004

#### INTRODUCTION

A programme for the design and installation of lighting for bridges over the Avon River has been established. The plan is to complete one bridge a year. Additional funding for bridge lighting has been obtained from Orion. This funding has been used to provide lighting for two bridges as detailed below.

The following programme is the agreed programme for the upgrade of bridges.

	<b>Bridge</b>	<b>Year</b>
1.	Worcester Street	2003/04
2.	Victoria Street	2003/04
3.	Armagh Street	2003/04 - 2004/05
4.	Bridge of Remembrance	2005/06 - 2006/07
5.	Gloucester Street	2007/08 - 2008/09

Note that it is proposed that the work associated with the Bridge of Remembrance and Gloucester Street bridge be carried out over two financial years. This is due to the current budget allocation of \$30,000 per year. Refer to budget section below for details.

#### CURRENT PROGRESS

##### Hereford Street Bridge

Completed in 2002/03 financial year. Upgrade work:

##### Victoria Street Bridge (The lighting work was funded by Orion)

Completed March 2004. Upgrade work:

- (a) Replace four existing ball luminaires with new Braemar fittings,
- (b) Install 27 new in-ground compact fluorescent up-lights to illuminate bridge handrails,
- (c) Install 10 medium beam compact fluorescent spotlights to illuminate internal girders,
- (d) Install four medium beam metal halide spotlights with blue filters to illuminate the river.

Note: All fluorescent fittings have energy efficient electronic control gear.

##### Armagh Street Bridge (The lighting work was funded by Orion)

Completed March 2004. Upgrade work:

- (a) Replace four existing ball luminaires with new Braemar fittings,
- (b) Refurbish existing under bridge lighting with new 'warm' coloured lamps,
- (c) Rewire bridge.

The official ceremony to 'open' the new lighting was held on 29 March 2004.

There are no in-ground up-lights installed to illuminate the hand rails. This is due to one side of the bridge carrying 66kV cables and the other side carrying Telecom fibre-optic cables and pipes for gas mains.

Connetics are obtaining a sample of a double-ended luminaire to trial on the centre of the bridge arch to illuminate the sides of the bridge in both directions. If successful this fitting could also be used on the Worcester Street and Gloucester Street bridges.

Note: Any additional work required on this bridge as part of reviewing these new fittings will need to be funded from the Council's budget for bridge lighting. It has previously been agreed that the Council would part fund the lighting work on this bridge. To date the works that have been undertaken have been paid for out of the \$80,000 contribution from Orion.

### **Worcester Street Bridge**

To be completed this financial year. Upgrade work:

- (a) Replace four existing ball luminaires with new Braemar fittings,
- (b) Victoria Square type in-ground luminaires to illuminate handrails,
- (c) New 'warm' coloured luminaires to provide lighting under the bridge,
- (d) Arch and abutments to be illuminated.

### **The Bridge of Remembrance**

Preliminary design only at this stage. Details as follows:

- (a) Replace nineteen existing ball luminaires on the memorial itself and the surrounding poles,
- (b) Replace four existing in-ground floods lighting up the main columns of the memorial,
- (c) Install lighting beneath the bridge and lighting for the sides of the bridge.

Given the significance of this bridge, appropriate consultation is required prior to work commencing.

It is proposed that more detailed design work for this bridge is undertaken. The design should be developed to a stage where consultation can occur.

### **Gloucester Street Bridge**

Preliminary design only at this stage. Details as follows:

It is proposed to light this bridge similar to the Worcester Street bridge. This bridge doesn't have any lighting on the sides or underneath the bridge. Therefore it is proposed to add this lighting. Allowance has been made for this in the budget.

### **Colombo Street, Manchester Street and Madras Street Bridges**

There have been no estimates completed for these jobs yet. They are several years down the track in terms of actual implementation. Development of budgets at this stage could well give a false impression of actual costs that may be necessary in the future.

Additionally, Manchester Street bridge is dependent on fundraising being undertaken by David Bolam-Smith for the band rotunda and the rowing sheds. Madras Street bridge is dependent on additions to the fire fighters reserve project.

## BUDGET

The following money has been allocated for this project:

Financial Year	2003/04	2004/05	2005/06	2006/07	2007/08
Amount Budgeted CCC	\$54,000	\$30,000	\$30,000	\$30,000	\$30,000
Amount Budgeted Orion	\$80,000				

The following financial plan is proposed for the project. It is based on the estimates provided by Connetics for the work.

	Bridge	Actual Cost	Estimate	Budget Source	Year
1.	Worcester Street		\$50,000	CCC	2003/04
2.	Victoria Street	\$43,209	\$55,000	Orion	2003/04
3.	Armagh Street	\$40,000	\$52,000	Orion	2003/04
4.	Bridge of Remembrance		\$73,000	CCC	2005/06
5.	Gloucester Street		\$55,000	CCC	2006/07

Note: Budget estimates for work in years 2004/05 and further out are to be confirmed when the detail design is completed.

## SUMMARY

Three bridges have now been completed. A fourth bridge will be completed this financial year. Progress on the whole project has been excellent.

Orion have contributed \$80,000 towards lighting upgrades for Victoria Street bridge and Armagh Street bridge. This funding was insufficient to complete the work for both bridges. The additional funding required was \$2,000. Orion has agreed to provide the additional money. Additional money will also be required when the trial light fittings have been approved for use.

It is appropriate to start considering the detailed design for the Bridge of Remembrance. Consideration should be given to bringing forward the funding allocated in the 2005/06 year to the 2004/05 year.

## Staff

**Recommendation:** That the Arts Culture and Heritage Committee approve the:

1. Design for the lighting for the Bridge of Remembrance commences immediately.
2. Re-allocation of the 2005/06 bridge lighting budget to the 2004/05 financial year.

## Chairman's

**Recommendation:** That the officers recommendation be supported.