

DELIVERING OUR TRANSPORT FUTURE NOW

rail revitalisation

belair line renewal



December 2008



Demonstration of sleeper laying machine



Photo courtesy of John McArthur

All enquiries: 1300 782 454
Visit: www.dtei.sa.gov.au/BLR
Email: dtei.rr@saugov.sa.gov.au



Government of South Australia
Department for Transport,
Energy and Infrastructure

Background >

The 2008/09 State Budget provides the biggest single investment ever by a State Government in our public transport system.

Over the next decade, \$2 billion will be invested to transform Adelaide's network into a vibrant, state of the art and sustainable system, providing faster, cleaner, more frequent and efficient services for commuters by:

- > revitalising the public transport network

- > increasing the use of public transport to 10% of metropolitan weekday passenger travel by 2018
- > providing a convenient low-emission transport option for the public
- > reducing South Australia's carbon footprint.

The centrepiece of this \$2 billion investment will transform the metropolitan passenger rail network

by delivering a number of rail initiatives including:

- > concrete resleeping of the metropolitan passenger rail network
- > electrification of the Noarlunga, Tonsley, Outer Harbor, Grange and Gawler lines
- > gauge standardisation of the rail network
- > interchange, station and Park 'n' Ride infrastructure upgrades.

Project overview >

The first project to be initiated as part of the Government's \$2 billion public transport investment is renewal of the Belair line (between Goodwood and Belair).

This will be a significant upgrade and essentially involves replacing the existing track with new infrastructure including:

- > upgraded track formation (base-layer) and ballast (rock material under the sleepers)
- > improved stormwater drainage
- > minor improvements to track geometry and alignment within the existing rail corridor



- > new long-life, gauge convertible concrete sleepers.

Renewal of the Belair line will provide reliable and more comfortable services for commuters well into the future.

Major construction works for renewal of the Belair line (between Goodwood and Belair) are expected to be completed around mid 2009.

What's happened so far? >

Activities undertaken to date include:

- > preliminary design works, including formation, drainage and geometric design
- > geo-technical and utility services investigations
- > short-listing of three consortia to undertake detailed design and construction works
- > planning for the replacement (bus) service while the track work is being undertaken and calling the contract for the supply of this service

- > placement of an order for design and manufacture of 110 000 gauge-convertible concrete sleepers

- > commencement of community engagement
- > environmental management planning.



Construction works >

Construction works will be undertaken in a coordinated and staged approach to minimise the impact on train commuters and the surrounding residents and businesses.

The length of time required for construction will be determined once the successful construction contractor is selected and their construction methodology is finalised. This methodology will take into account aspects such as:

- > machinery and equipment that can be used
- > rail corridor access arrangements
- > having a safe working environment adjacent to the main freight line which needs to remain operational at all times throughout the construction period
- > environmental management constraints
- > traffic and pedestrian access arrangements.



A key requirement for the construction contractor will be to develop a program of works that will see the project completed in the safest, most efficient and least disruptive manner.

In order to complete construction as quickly as possible and therefore minimise the period of rail closure, it is likely there will be some night works.

Detailed construction planning will be used to find the right balance between minimising disruptions to train commuters and noise disruption for residents.

Any night works will be staggered along the Belair railway line where possible to reduce the extent and period of impact on individual residents.

Alternative passenger services >

The Belair line will be closed during the construction phase to allow the works to be undertaken as safely and efficiently as possible.

Bus services will be provided during the construction period. These will be designed to replace the existing train services as closely as possible in terms of service frequency and

stopping points. Further details of alternative bus services are expected to be available early in 2009.

The accommodation of wheelchairs and other mobility aids is recognised as a key issue. Wherever possible, accessible buses will be provided subject to availability. If you have a requirement for accessible transport,

please contact the Project Team on 1300 782 454 with your specific requirements. This will help to plan the best use of available resources.

The alternative services will be unable to accommodate bicycles for the duration of the Belair line closure.

Hills freight line interface >

Work on the Belair line will not have any impact on the adjacent freight line.

Electrification of the Belair line is not proposed at this time, as it requires

further engineering and operational analysis, due to two tunnels and the close proximity of the interstate freight rail line.

The hills freight line is the subject

of a \$3 million study announced by the Australian Government and the decision to electrify the Belair line won't be further considered until after this study has been completed.

What happens next? >

It is expected that the main contract to undertake the detailed design and construction works will be awarded to a consortium in early 2009.

At least two months detailed design work by the successful contractor will be required before construction can begin. This detailed design work is needed to finalise design aspects including:

- > track alignment and geometry
- > modifications to signals and communications infrastructure
- > drainage improvements
- > interfaces with station platforms as well as pedestrian and level crossings
- > earthworks requirements.

Further details of the timing and length of the construction works will be available early in 2009 and will be provided to the local community and train commuters as soon as possible.



Activity	Timing
Award Design and Construct contract to successful tenderer	January / February 2009
Detailed design	At least 2 months
Start major construction works (Belair line closed)	After detailed design
Complete first stage of track upgrade	Mid 2009

Further information >

For further information or to provide comments please:

- > **complete** the comments form (no stamp required) and return to Rail Revitalisation, Reply Paid 1, Walkerville SA 5081

- > **visit** the website at www.dtei.sa.gov.au/BLR and complete the comments form online;
- > **call** the project enquiry line on 1300 782 454 and speak to a member of the project team;

- > **email** the project team at dtei.rr@saugov.sa.gov.au

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