

A rail link to the Flinders Precinct

Joint Meeting RTSA & Structures Chapter, Engineers Australia

RTSA



About the project

The Flinders Link Project incorporates the detailed design of a 650m rail extension of the Tonsley Rail Line to the Flinders Medical Centre and University precinct comprising of a 430m long viaduct, a new station design and an elevated walkway. The primary purpose of the Flinders Link Project is to:

1. Connect the Flinders Precinct to the rail network;
2. Improve public transport passenger access to the Flinders Precinct;
3. Facilitate an interchange between bus and train services for passengers;
4. Improve pedestrian & cycling connectivity between the Flinders Precinct, Laffers Triangle and Tonsley development; and
5. Enable and integrate with the future development of the Flinders Precinct.

The project includes the design of a single track rail extension utilising a rail viaduct on a sweeping curve, starting at the existing Tonsley Station and passing over Sturt Road, Laffer Drive, the Southern Expressway, and Main South Road, terminating at the proposed new Flinders Station. A pedestrian and cyclist connection is also provided from Sturt Road to the Flinders Precinct through the viaduct and a ramp at the vicinity of Birch Crescent and Sturt Road intersection.

The presentation will focus on the design of the project and the challenges associated with the site constraining the horizontal curvature to a 237m radius, and developing a viaduct design with no rail expansion joints to remove ongoing maintenance costs and operational risks.

About the Speakers

Arwin Salih, Lead Bridge Engineer for the Flinders Link Project is from Jacobs. Arwin has developed and honed his skills through performing key roles on landmark projects such as the Darlington Upgrade Project as a Structural Discipline Lead. He played an active role on the recent Australian first bridge move and installation of a pre-assembled bridge using Self-Propelled Modular Transport (SPMT).

Patrick Vabolis, Civil Engineer for the Flinders Link Project is from KBR. Patrick has been involved in the civil, drainage and rail aspects of the project's design. He has previously worked on key transport projects such as the O-Bahn City Access Project and Sydney Metro Northwest.

VENUE:

Engineers Australia
Level 11, 108 King
William Street, Adelaide

DATE:

Thursday 9th May 2019

TIME:

5:45pm for 6pm start

Cost:

RTSA Member, Society
Member & Student
Member - Free

Non-Member Rate: \$30.00

RSVP:

<https://www.engineersaustralia.org.au/event/2019/04/rail-link-flinders-precinct>

Maximum CPD Hours: 1
hour(s)

www.rtsa.com.au



RAILWAY TECHNICAL SOCIETY of AUSTRALASIA

The RTSA is a joint technical society of Engineers Australia and the Institution of Professional Engineers New Zealand

