

# LinQed



Works underway at Ferny Avenue, Surfers Paradise

## News from the Gold Coast light rail

Welcome to the September edition of LinQed, where you can find the latest information on Stage One of Queensland's first light rail system on the Gold Coast.

The GoldLinQ consortium, in partnership with the state and federal governments and Gold Coast City Council, is nearing the peak of construction of the project.

In this edition of LinQed, we showcase a historic moment for the Gold Coast with the laying of the first piece of rail, as well as details of the construction schedule including an update on the extensive relocations and upgrades of the city's underground public utilities. Also included is information about a local business benefiting

from our proactive approach to communication as part of GoldLinQ's commitment to 'LinQing the Gold Coast Community' and the various activities GoldLinQ is undertaking as part of the Schools and Education program. Finally, we get a sneak peak of the first *Flexity 2* Light Rail Vehicle headed for the Gold Coast.

If you would like to know more about the project, please send your story suggestions to our email at [information@goldlinq.com.au](mailto:information@goldlinq.com.au). You can keep up-to-date with the progress of construction through the website at [www.goldlinq.com.au](http://www.goldlinq.com.au) or call the project hotline on 1800 967 377.\*

Happy reading!

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# Staging

Construction activity is currently occurring simultaneously across the 13-kilometre Stage One route.

## Southport

Works to date or now underway include:

- Services relocation and pavement works in Parklands Drive are nearing completion.
- The piers for the Smith Street light rail bridge are nearing completion.
- Construction of a Depot facility is underway with piling, earthworks and underground services works now completed.
- Preparation works and track laying is underway.
- The relocation of underground services in Scarborough Street between Nerang and Lawson Streets is nearing completion.

- Drainage work is nearing completion in Queen Street and Ada Bell Way.

Over the next six months work is expected to include:

- Track laying will commence in the pedestrian section of Nerang Street between Davenport and Scarborough Streets.
- Works continue on the Depot facility which will be used to store and maintain Light Rail Vehicles and house operations staff.
- Fit-out of the Gold Coast University Hospital Station will continue.
- Works to relocate the bus stop at Griffith University will commence.

## Surfers Paradise

Works to date or now underway include:

- Permanent traffic change to Waterways Drive from Gold Coast Highway northbound, with a new right-turn lane and right-turn signal replacing the western slip lane.
- Works continue adjacent to Paradise Waters and construction of the Macintosh Island North Bridge has commenced.
- Traffic diversions remain in place at the intersection of Ferny Avenue (Gold Coast Highway) and Surfers Paradise Boulevard. These works will be put on hold during the Gold Coast 600 and motorists are advised to take care in the area.
- Works along Surfers Paradise Boulevard at the Elkhorn Avenue intersection continues and traffic diversions are in place.

- Construction activity on the Light Rail Vehicle and shared Pedestrian and Cycle bridges across the Nerang River has commenced.

Over the next six months work is expected to include:

- Additional construction zones will be established along Surfers Paradise Boulevard.
- Traffic on Surfers Paradise Boulevard will continue to be redirected to avoid construction zones. Lane and road closures may be required throughout this period.
- Works will begin on a light rail bridge at Macintosh Island South.
- Works will commence from Admiralty Drive intersection to the intersection of Ferny Avenue (Gold Coast Highway) and the Surfers Paradise Boulevard.

## Broadbeach

Works to date or now underway include:

- A site office has been set up on the corner of Gold Coast Highway and Pacific Fair Drive.
- Safety barriers and fences have been installed between Pacific Fair Drive and Australia Avenue.
- Vegetation has been cleared on the western-side of the Gold Coast Highway.
- Temporary footpath closures near the active work area and alternative pedestrian routes have been implemented.
- Traffic has been realigned to the centre of the Gold Coast Highway, and slip lanes have been removed or modified at TE Peters Drive and Hooker Boulevard.

Over the next six months work is expected to include:

- Traffic changes will occur at the intersection of Gold Coast Highway and Hooker Boulevard to start road and track-form works.
- Relocation of underground services will be finalised.

*Note: Possible external influences mean plans could change, should this occur GoldLinQ will notify those affected.*



## Future proofing the Gold Coast

One of the largest and most complex single upgrades of underground services currently being undertaken in South East Queensland is happening here on the Gold Coast.

Construction along the 13 kilometre light rail corridor provides a unique opportunity to simultaneously complete major maintenance, improve services through many of the city's oldest and most populated suburbs and future-proof the city. GoldLinQ's construction partner McConnell Dowell will install around 8.6 kilometres of drainage as part of underground service upgrades with drain pipes ranging from 30 centimetres up to 1.8 metres in diameter, 64 kilometres of Telstra conduits, over 50 kilometres of Energex conduits, 7 kilometres of water and sewerage pipes and hundreds of manholes and pits. This work is necessary to ensure the Gold Coast is able to manage forecast population growth and provide better flood mitigation.



# LinQing the community GoldLinQ gets Motivated!



**Construction of the Gold Coast light rail continues to provide direct and indirect benefits to the local economy.**

Motivated Mums, a Gold Coast based business of enthusiastic and community conscious mums, are assisting GoldLinQ with the distribution of construction notifications to residences across the 13-kilometre corridor.

The Motivated Mums team started working with the project during the State funded early works packages and have since continued with GoldLinQ's Communications and Stakeholder Engagement team.

Marissa Harding-Smith, Manager for Motivated Mums said working on the light rail has provided the Gold Coast based Mums with an opportunity to learn more about this significant piece of infrastructure while also getting fit.

"As a community-based organisation, we have found the Gold Coast light rail to be

very beneficial to our cause. We have been able to share important information with the community about the project whilst employing a group of Mums to work in their local areas."

"The Gold Coast is now the sixth largest city in Australia and as such we need to make sure our infrastructure can support our growth in order to continually attract people to come to our city. We believe the Gold Coast light rail project will facilitate this goal and also help local residents to commute to their destination in an effective way."

Julie Castle, Communications and Stakeholder Manager for McConnell Dowell said GoldLinQ is committed to contributing to the local economy and has a number of local industry participation targets to meet during the design and construction phase.

"Marissa and the team do a great job and have helped us to deliver thousands of notifications

*Marissa Harding-Smith of Motivated Mums delivering construction notices.*

to affected stakeholders so people have the latest information on work activities and impacts," Mrs Castle said. To date, construction of Gold Coast light rail has injected more than \$40 million into the local economy.

## City-changing project provides hands on experience for students

**University and TAFE students are now gaining experience on a world-class project thanks to GoldLinQ's commitment to local industry participation through their 'Love Learning' Schools and Education program.**

McConnell Dowell Constructors (Aust) Pty Ltd (MacDow) along with Bombardier Transportation Australia Pty Ltd (BT), responsible for designing and constructing Stage One of the Gold Coast light rail, have employed a number of undergraduate students from a variety of disciplines – Environmental Science, IT and Civil Engineering - allowing students to play an active role in the delivery of Queensland's first light rail system.

Michael Kulk, Employee Relations Manager for McConnell Dowell said the partnerships with Griffith and Bond Universities as well as the Gold Coast Institute of TAFE (GCIT) invested in the students of today to maximise future employment within the Gold Coast region.

"It's good to see students getting proactively involved in the project. Partnering with future graduates provides them with a greater

understanding of the construction industry and the corporate world," Mr Kulk said. Griffith University's Industry Affiliates Program (IAP) student, Teenon Liamsuwan said working on the light rail project has been challenging and rewarding. "IAP enabled me to integrate theory with practical work through investigating an issue that has a real impact on construction activities" Mr Liamsuwan said.

James Crew, in his final year of a Bachelor of Environment Management (Sustainable Development) at Bond University, said working on the Gold Coast light rail project has enabled him to interface with how it actually works in the real world, learning things that can't be taught at University.

GCIT Fashion Diploma students have also benefited from the program with the Institute's fashion team approached to work on concepts for GoldLinQ's operations and maintenance partner, KDR Gold Coast Pty Ltd, light rail uniform clothing line.

GoldLinQ CEO Phil Mumford said getting the students involved with the Gold Coast light rail project designing a uniform was a great initiative of the 'Love Learning' program.



*GCIT Fashion students show design concepts to Michael Kulk, Employee Relations Manager for McConnell Dowell*



*Griffith University IAP student, Teenon Liamsuwan, with Anna Carleton, Environment and Sustainability Manager for McConnell Dowell.*

"It will be great to see our tram drivers wearing a uniform designed by a Gold Coast student come mid-2014." Mr Mumford said.



# Laying the tracks

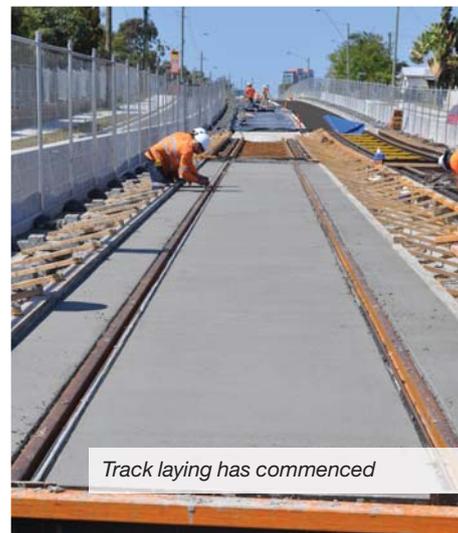
To establish the 13-kilometre Stage One route from Gold Coast University Hospital to Broadbeach more than 55 kilometres of rail is being used.

Track laying has commenced in Queen Street, Southport. Sections of completed track can be seen by visiting the gallery section of the website [www.goldlinq.com.au](http://www.goldlinq.com.au).

GoldLinQ CEO Phil Mumford said when the Stage One track is completed it will be fully integrated with the existing road network and pedestrians will still be able to use the same crossings at intersections.

"Where trams cross the road at a same grade intersection with motorists, the traffic signals will control vehicle movements so there will be no boom gates or flashing lights at intersections," Mr Mumford said.

"GoldLinQ trams will run at the same signed road speed as other vehicles. Tram drivers will stop when they face a red light. Other vehicles will be required to stop on a red light as normal, to let the tram and other vehicles through the intersection."



## Gold Coast light rail vehicle facts:

BT's LRV facility has a manufacturing capacity for up to 250 light rail vehicles per year in Bautzen and Vienna. The Bautzen site was first opened in 1846. The city of Bautzen is more than 1,000 years old.

long and 2.65 metres wide with an overall height, from top of rail to top of pantograph<sup>2</sup>, of 6 metres and from top of rail to top of car of 3.80 metres. When empty, the vehicle weighs 60,400 kilograms.

Access to the car modules is via six double doors and two single doors each side and the low floor allows level access between the platform and the vehicle. The seven car modules are carried by three powered bogies<sup>1</sup> and one trailer bogie<sup>1</sup>. The primary power supply to the vehicle is 750Vdc (Volts Direct Current) collected by a pantograph from an overhead line. Cooling of the motors is by water and the maximum operating speed of the LRV is 70 kilometres per hour.

<sup>1</sup>A bogie is a chassis or framework carrying wheels, attached to a vehicle.

<sup>2</sup>A pantograph is a hinged electric-rod device that collects electric current from overhead lines for electric trains or trams.

## Gold Coast Light Rail Vehicles take shape

The specially designed **Bombardier Flexity 2 Light Rail Vehicles (LRV)** are taking shape at the assembly facility at Bautzen, Germany.

The first LRV module is entering the painting process which includes sand blasting and applying several paint layers resulting in a finish that resists the impacts of the Gold Coast climate such as UV light and salt laden air.

Once the painting process has been completed the modules will be moved to the final assembly area, where the carshells

will be fitted out with the windows and floors and finally with the complete interior and roof equipment. The modules of the second LRV are in the different stages of the carshell manufacturing, which is produced by welding together pre-manufactured underframes, side walls, end portals and roofs.

Designed by Bombardier Transportation (BT), the 14 vehicles consist of seven bi-directional, four-bogie<sup>1</sup> car modules designed for single vehicle operation. They measure 43.42 metres

[www.goldlinq.com.au](http://www.goldlinq.com.au)

Project hotline 1800 967 377\*  
and select 1 for the GoldLinQ option

\*Free call within Australia. Call charges may apply from mobile phones and payphones.

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