

Mackay City Substation - Project Update



Part of Energy Queensland

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We're paving the way for the reinstatement of footpaths and roadways around the Mackay City Substation

Footpath reinstatement has begun

Work has commenced to reinstate the footpaths that were disturbed during our construction of the new Mackay City substation and the connection of the underground cables from the substation to the surrounding distribution network.

Mackay Regional Council has provided us with their footpath standard which includes a concrete and paver finish – see Figure 1. We are required to follow this standard to ensure that the new footpaths look like others around the city.



Fig 1 – Example of what the footpaths will look like once reinstated.

Over the coming weeks, our contractors will reinstate all the footpaths disturbed during our works along Gordon and Tennyson Streets. This work will be completed in sections, with the section on Gordon Street between Watson's Fencing and the Inner Labyrinth, already underway.

There are several stages to replacing the footpaths, starting with marking sections in the existing footpath to guide the cutting of the old concrete – see Figure 2.



Fig 2 – Footpaths marked up for saw cutting the concrete footpath.

The concrete is then cut with a large electric circular concrete saw and the sections of old concrete are lifted and removed.

With the old sections of footpath removed, the area is prepared by leveling the surface and then installing reinforcement or 'reo mesh' and the timber formwork – see Figure 3.

The reo mesh helps to strengthen the new concrete and the formwork keeps the new concrete contained until it

dries, and barricades off the area where the new pavers will be installed once the new concrete has cured.



Fig 3 – The area is levelled, and the formwork and reo mesh are installed, ready for pouring the new concrete footpath.

The new concrete slab is then poured and finished off by levelling and trowelling the surface, to get a nice even finish. Trowelling also pushes out any air bubbles in the pour to ensure the new slab is strong – see Figures 4 and 5.



Fig 4 – The new footpath is poured between Watson's Fencing and Inner Labyrinth on Gordon Street.



Fig 5 – The contractor's level and compact the new slab in Gordon Street.

Our contractors are now progressing down Tennyson Street, excavating small sections of the old footpath, ahead of the teams who will prepare the formwork and pour the new slabs – see Figure 6.



Fig 6 – Contractor's progress the excavation of the footpath down Tennyson Street.

This approach will ensure that the works continue to progress and that we are able to minimise disruption as much as possible for the businesses in the street.

To further minimise disruption to businesses, we will complete areas such as driveways outside of business hours, so that we can maintain safe access to businesses for your staff and customers.

When the footpaths and kerbing works are complete, we will commence the reinstatement of the roadways in Tennyson and Gordon Streets. This phase of work will likely be noisy and quite disruptive, so we are planning to complete the profiling and road reinstatement work at night after businesses have closed, to minimise the impact.

The final step will be to reinstate the garden beds in Gordon Street. We will provide more information about the staging and timing of these works in our next update.

Getting in touch with us

Thank you for your patience while these works are underway. If you have any questions about the Mackay City Substation Project, contact Kate Austin - Senior Community Engagement Advisor - on 1300 653 055 or email us at:

NetworkProjectEngagement@energyq.com.au

You can also keep up to date on the project by visiting our project website:

<https://www.ergon.com.au/network/network-management/network-infrastructure/major-projects/regions/central/tennyson-street-substation-refurbishment>