

Mackay City Substation - Project Update



Part of Energy Queensland

February 2022

The recovery of redundant underground cables from Tennyson Street substation recommences in February

Stage 3 – direct buried cable recovery works commencing

With the recovery of the redundant underground cables - which were installed in conduit - now completed, the contractors will now move their focus to Stage 3 works.

Stage 3 cable recovery will involve removing the old Tennyson Street underground cables, which were direct buried.

Removal of direct buried cables will require our team of contractors to excavate beneath the road to create trenches to access the underground cables. We understand that this work may cause some disruption to businesses adjacent to these sites.

To ensure that the cables can be removed safely, and to limit any disruption associated with the works for neighbouring businesses, Stage 3 works will also be completed in sections. Works are scheduled to commence on Monday, 21 February and will take about four weeks to complete.

Removal of old Victoria Street East cable

Commencing on Monday, the first section of cable identified for removal is the remaining section of the Victoria Street East cable.

This section of cable runs parallel to Tennyson Street, along the eastern side of the street, in front of Tennyson House – see Figure 1.

The excavation required for the removal of this section of cable will render the carparking spaces in front of Tennyson House unavailable for a short period of time, however there will still be driveway and pedestrian access to both Tennyson House and TechServe.

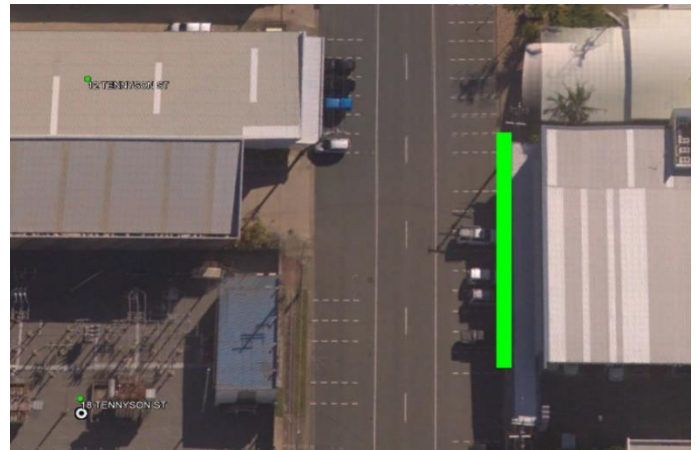


Fig 1 – Planned excavation site for Victoria Street East cable.

Goldsmith Street East cable recovery

The next section of cable to be removed is the old Victoria Street East cable, which runs down Tennyson Street from opposite the old substation, and around the corner into Gordon Street to the eastern end of Inner Labyrinth – see Figure 2.



Fig 2 – Location of excavation site for removal of Goldsmith cable.

Brisbane Street cable recovery

When the removal of the old Goldsmith cable is complete, the team will move to the western side of Tennyson Street and commence recovery of the old Brisbane Street cable. This old cable runs south from Tennyson Street substation down to the roundabout and then west along Gordon Street – see Figure 3.

Trenching this section will include excavating the impacted traffic islands, which will be reinstated in Stage 4 of these civil works.

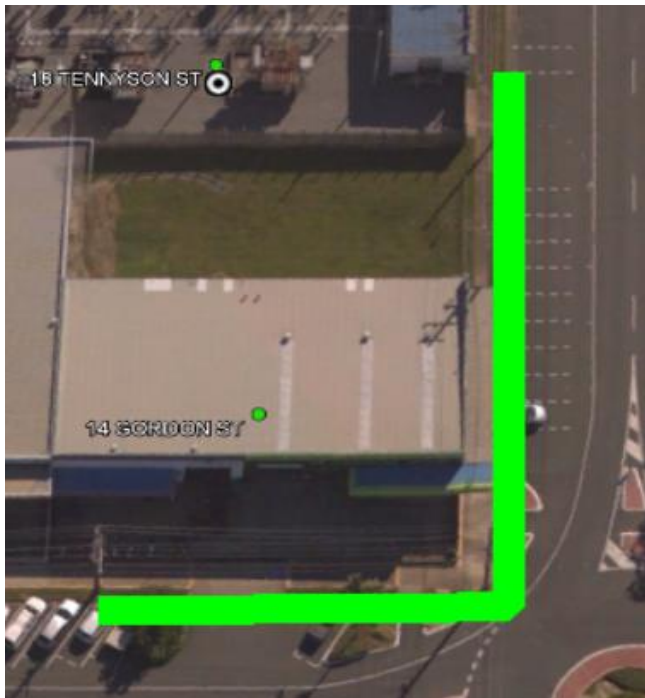


Fig 3 – Excavation path for the removal of old Brisbane Street underground cable

Where long trenching runs are required, like for the Brisbane Street cable removal, the contractors will excavate a section of the trench at a time, cutting and removing that section of cable and backfilling the trench before starting on the next section.

This approach will reduce the disruption in the street, keep as many carparks in the area available, and reduce safety risks associated with open trenching across a larger worksite.

Traffic control at the Gordon Street roundabout, where we will need to encroach on the road, will help to ensure site safety around the work site. This may include intermittent road closures for short periods of time to keep the site safe and keep the traffic flowing.

Removal of the old Mackay cable

The remaining section of the old Mackay underground cable runs along Tennyson Street between the old substation and the new Mackay City substation – see Figure 4.

This section will be removed under traffic control with a partial road closure established. Carparks in front of the substations will be unavailable during this stage.



Fig 4 – Location of excavation site for the old Mackay cable.

Recovery of the redundant Mount Bassett cable

The remaining section of the old Mount Bassett cable is scheduled for removal next. This section of cable runs north up Tennyson Street between the old substation and the edge of Theatre Arts Mackay Dance Excellence studio – see Figure 5.

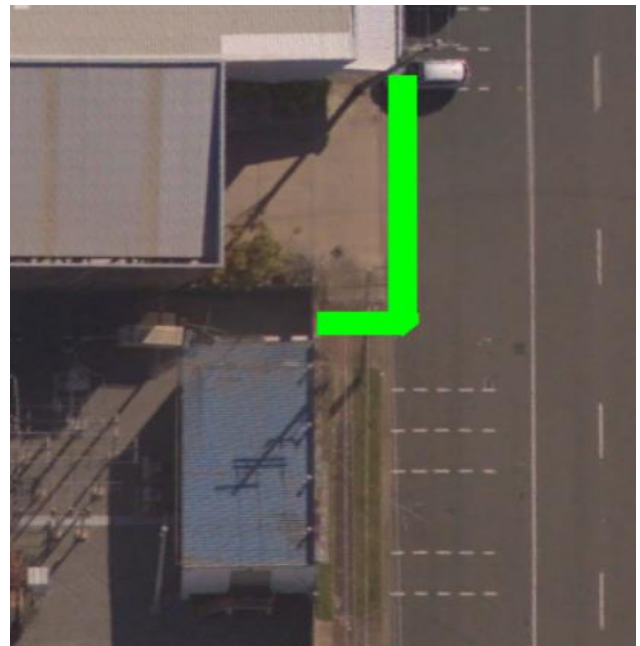


Fig 5 – Location of excavation site for the old Mount Bassett cable.

Because this section of the excavation traverses Porter's Mitre 10 delivery dock driveway, which caters for semi-trailer and other heavy vehicles, this work will be scheduled to be completed outside business hours.

This approach will ensure that there is minimal disruption to deliveries, as well as simplifying the excavation job for our contractors, who will not need to stabilise trenching with temporary reinforcement measures to accommodate the heavy vehicle access.

Final cable recovery across Tennyson Street

The last section of recovery works in Stage 3 will remove a series of cables in front of the Tennyson Street substation and a cable that crosses the street – see Figure 6. Because safety is our number one priority, traffic control with partial road closures will be established for short periods of time for this section of the recovery works.

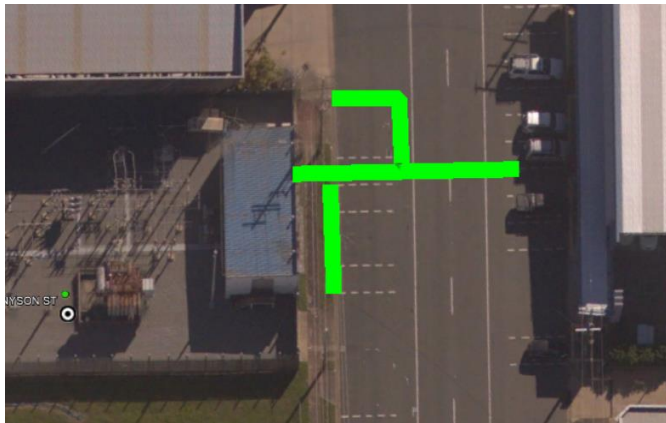


Fig 6 – Excavation sites for Tennyson Street cables.

While we have planned these works to be completed sequentially, we have some flexibility in the schedule to cater for inclement weather, the availability of crews and to meet specific business needs that can arise from time to time.

End of an era in Tennyson Street

With the Mackay City substation now energised and supplying the electricity needs of Mackay’s CBD, we can commence the recovery of serviceable equipment that can be used elsewhere in the electricity network.

This final equipment recovery will see the end of an era for the sixty-year-old Tennyson Street substation – see Figure 7 – will be demolished.



Fig 7 – Tennyson Street substation will be demolished.

Demolition of the old substation building and redundant equipment will pave the way for the final stage of the Mackay City substation project and the construction of an

authorised vehicle access and vehicle carpark for substation workers who will maintain the new substation.

Stage 4 – Final reinstatement of footpaths and roadways

The fourth and final stage of recovery works will involve the final reinstatement of the footpaths and roadways which were disrupted during our works.

Again, this work will be completed in stages and will involve completely replacing the footpaths and road surfaces highlighted in Figure 8, completely replaced.

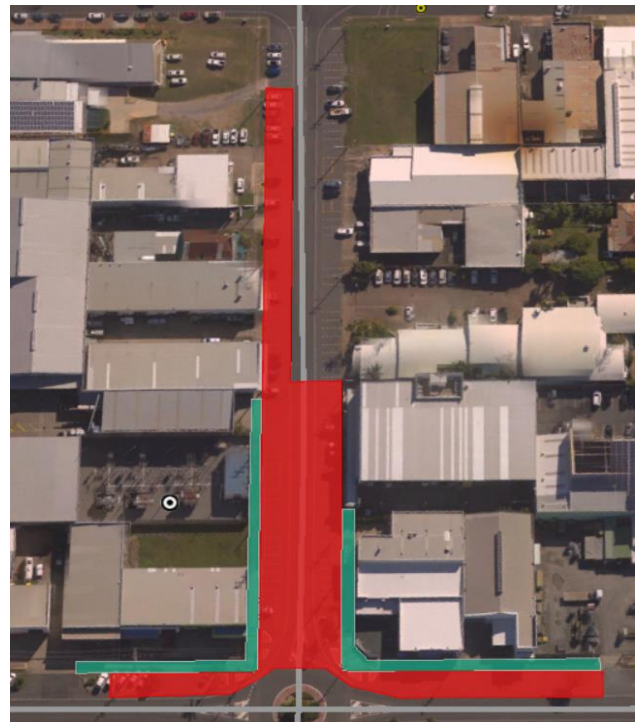


Fig 8 – Footpath and roadway reinstatement sites.

We have Stage 4 reinstatement works scheduled to commence in late March, with the works expected take approximately four weeks to complete. We will provide the detail of the staging of these works as soon as they are finalised with the contractors.

Getting in touch with us

As always, we thank you for your patience while these works are underway and encourage you, if you have any questions about the Mackay City Substation Project, to 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>