

# CANTERBURY ROAD UPGRADE MIXED UTILITY INSTALLATION

CLIENT: ABERGELDIE/CITY OF CANTERBURY BANKSTOWN

LOCATION: CANTERBURY NSW

DURATION: 4 MONTHS

VALUE OF ENGAGEMENT: \$4 MILLION

Canterbury Council are commencing intersection upgrades to widen and signalise Canterbury Road and Charles Street for future development. As part of the enabling works, Ferrycarrig were contracted by Abergeldie to complete utilities relocations in the area.

The project involves:

- Realignment of Canterbury Road, Close Street, and Charles Street intersection to facilitate new traffic signals.
- A slip lane from northbound Canterbury Road to Charles Street for safer turning from Canterbury Road onto Charles St.
- Construction of dedicated right-hand turning lane from southbound Canterbury Road to Charles Street, a left turning lane from Close Street to Canterbury Road, and a right turning lane from Charles Street to Canterbury Road to allow safer right hand turning from Canterbury Road to Charles Street.
- New streetlights and paved footpaths for the safety of pedestrians.
- Undergrounding of overhead power lines.

To facilitate the intersection upgrade Ferrycarrig were engaged to perform the utility relocation and upgrade package of work prior to the road widening and new pedestrian areas being constructed. Ferrycarrig's scope of work includes the following:

- Construction and commissioning of approximately 180m of new Water Main throughout the intersection. MSCL & DICL pipe of size 200 & 300 diameter.
- Approximately 950m of electrical trenching & new conduit install for new LV, HV, and street light networks
- 340m of HV Cable Hauling and jointing
- Over 800m of LV and SL cabling hauling and jointing
- Removal of the old electrical overheads and commission of the new underground network
- Replacement of the old streetlights.
- Relocation of the current low and medium pressure gas mains servicing the area.

Ferrycarrig encountered numerous significant design issues after our initial preliminary investigative works. Liaising with Abergeldie and Sydney Water, Ferrycarrig's project delivery team were able to re-design the new network to eliminate the need for a major and difficult road crossing that was part of the original design. This design change has reduced the degree of permanent restoration works required on the final road surface and reduced the water main construction program duration by 4 weeks.

Ferrycarrig is working on a complex site in terms of site logistics and in-ground services. The works are located within a major artery road servicing Canterbury and surrounding suburbs. Therefore all works were executed at night with temporary restoration completed prior to the end of each shift for the work area to be handed back to the public in a safe condition.

Three high-pressure fuel lines slice through the intersection. This adds another level of complexity when excavating near such high-risk assets. Ferrycarrig has mitigated this risk through the development of detailed construction methodologies and by working under the guidance of approved asset spotters.

