

M40 Water Main Renewal

Date:

January 2017 – November 2017

Location:

Preston, VIC

Client:

CPB for Melbourne Water

Project value:

\$4.7mil

Project Details:

The M40 Water Main Renewal project involved the replacement of the M40 Pipeline laid in the 1920's from Merri Creek to Preston Reservoir. The works involved approximately 2km of 1750mm MSCL Pipe and associated MSCL offtakes. Scope of works also included 7 reticulation watermain shutdowns requiring extensive coordination with Yarra Valley Water for cross connections, 2 major VicRoads intersections crossings undertaken as 24-hour works & abandonment of 2.2kms of redundant OD1350 MS watermain.

The alignment was located between two Yarra Tram lines travelling along St Georges Road, and pipe was laid beneath the existing shared pedestrian/cyclist pathway currently carrying up to 4000 cyclists travelling to the CBD daily.



JAYDO CONSTRUCTION

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Key Challenges:

- Limited construction corridor between operational tram lines, bike path and 2-lane carriageway along St George Rd
- The size, length and weight of pipe provided a key challenge due to the restricted construction corridor – 13.5m OD1750 MSCL (approx. 10.5 tonne each) installed using 69 tonne excavator
- Restrictions on vehicle & truck movement due to MOAs limiting access to 9:30am - 4pm
- Continuity of works with minimal disruption to local community and traffic movements
- Weatherproofing site prior to forecasted rainfall events



Value for Money:

JAYDO's extensive construction experience proved valuable to the client with early constructability advice minimising potential design issues or impact to the programming of the works. Detailed planning of site activities & coordination of works ensured that day to day activities worked seamlessly with other CPB works occurring concurrently, whilst ensuring minimal disruption to the community.

Exceptional workmanship & consistent QA monitoring ensured a very high level of quality was delivered throughout the project. In addition, JAYDO's ability to ramp up & down ensured sufficient resources were available depending on criticality of works & shutdown periods.



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