

Greater Western Water – M205 Carlton Water Main Renewal

New supersedes Old – Pipeline nearing end of service life renewed with relocated replacement.



Project Need

The M205 Carlton Water Main is crucial to the supply of water for Carlton, Carlton North, and Melbourne’s inner-city areas. Established in 1878, the original pipeline was over 140 years old and fast approaching the end of its working service life. The replacement of this pipeline was therefore essential to sustain the water supply of these well-known parts of urban Victoria.

This project involved the supply of 2.3 km of pipeline and joints to replace the existing main. The original pipeline ran under Nicholson Street, however due to increased traffic density and likely tram stop upgrades, the new pipeline was placed under Canning Street.

Solution

Steel Mains was selected as the supplier of the pipeline for this project. This involved the provision of 2.3 km of 813OD x 6mm Sintakote® cement lined steel pipe by Steel Mains to be used as replacement for the existing pipeline, as well as the associated joints.

The specified joint for this project was Sintalock® Type I welded rubber ring joint, a specialty of Steel Mains. As this joint requires no entry into the pipe during construction, the need for coating and lining reinstatement is eliminated, significantly reducing installation duration time without compromising performance. Additionally, due to its cutting-edge corrosion protection technology, Steel Mains’ Sintakote Steel Pipeline Systems can ensure that this pipeline can provide a consistent water supply for another 140 years and beyond.

Achievements

The M205 Carlton Water Main Renewal is a great display of how Steel Mains’ pipeline systems can be used to replace ageing pipelines, not only to maintain or improve upon the performance of the pipeline that it replaces, but even sustain increasing pressure due to population growth in the areas it provides its service. Steel Mains innovative Sintalock Type I RRJ joints also allows for a safe and efficient construction installation process.

M205 Carlton Water Main Renewal was an essential development for the water security of the communities in inner-city Melbourne, bringing value to businesses and preserving the liveability of these areas for now and the future.

Project: M205 Carlton Water Main Renewal

Principal: Greater Western Water

Location: Canning St, Carlton North, Victoria

Completion: 2021

Supplied: 2.3km of SINTAKOTE® DN813; Sintalock-1 Pipeline