

M039 Punt Rd Water Main Replacement

Replacing One of Melbourne's Oldest Pipelines



Project Need

The existing pipeline running under Punt Rd between South Yarra and St Kilda was installed in the 1890's and was manufactured from wrought iron. It was one of Melbourne's oldest pipelines. This existing pipeline was in need of replacement to secure water for approximately 97,000 homes and businesses in the inner south east suburbs from South Yarra to St Kilda and Port Melbourne. The new pipeline will serve water supply based on current demand and protect for future demand requirements.

Solution

Steel Mains was contracted to supply and deliver pipes for the entire project. As part of the contract, a full suite of products were manufactured and delivered to site including 813mm OD and 660mm OD Sintakote Steel pipes. The total pipe supplied was approximately 3km for this project. The jointing system used for these pipes was SINTALOCK® - Type I joint, which incorporates a Rubber Ring joint with an external fillet weld only.

Achievements

The location of the pipeline alignment meant that installing standard pipes was not only going to be challenging, but also pose a risk to the community and those involved with the construction. Due to this fact, Melbourne Water requested that Steel Mains supply the 813mm OD pipes in shorter lengths, 6m long. The Company's manufacturing capabilities enabled the supply of pipes which were both 6m, and 12m long for sections of the pipeline which had greater access. Our SINTALOCK® joint also meant that the construction contractor was only required to weld the pipes externally, with no requirement for internal welding or joint reinstatement, thereby improving pipe laying efficiencies and safety especially in built up areas. Our Sintakote® coated SINTALOCK® pipes also provided Melbourne Water with the confidence that these pipes would provide a service life beyond 100 years, securing water supplied for those in the region. Steel Mains' despatch team worked closely with the onsite contractor to deliver pipes as they were required over a 10 month period. Our storage & manufacturing facilities in Somerton allowed us to deliver pipes as required without the need for Melbourne Water to house a storage yard in such a confined area of the city.

Project: M039 Punt Rd Water Main Replacement

Principal: Melbourne Water

Location: South Yarra / St Kilda Victoria

Completion: 2015

Supplied: Sintakote Steel Pipe
813mm & 660mm OD
SINTALOCK® Joints