

M40 Merri Creek Watermain Renewal

Replacing critical water infrastructure



Project Need

The existing pipeline to be replaced was in two areas. The north zone was located from the Preston Reservoir along Hight St, with the south zone located along St Georges Rd in Northcote. The existing pipelines being replaced were almost 100 years old and needed replacing to service a growing Melbourne Population. This pipeline is one of the critical mains that provides water for inner city Melbourne residents. 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 was manufactured and delivered to site including 3000m of 1750 OD Mild Steel pipe. The jointing system used for these pipes was SINTALOCK® - Type II joint, which incorporates a Rubber Ring joint with an external fillet weld only. This was significant as it was the first time the SINTALOCK® - Type II joint had been used for a major project.

Achievements

Throughout history, traditional pipes in these sizes has meant that welding of steel pipes was required both internally and externally. Our SINTALOCK® II joint provided the construction contractor the opportunity to weld the pipes externally only, 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® II 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' dispatch team worked closely with the onsite contractor to deliver pipes as they were required over a 12-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: M40 Merri Creek Water Main Renewal

Principal: Melbourne Water

Location: Preston / Northcote

Completion: 2018

Supplied: Sintakote Steel Pipe
1750 OD SINTALOCK® II
Joints – 3000m