

Darlington Upgrade Project

6.1km pipeline enabling the construction of Adelaide's North-South Corridor Roadworks.



Project Need

The Darlington Upgrade Project is an important stage in the delivery of Adelaide's North-South Corridor development works and will deliver an upgrade of approximately 3.3 kilometres of the existing Main South Road. Works include; a non-stop motorway, some sections of which were lowered, grade separation for significant inter-sections and dedicated ramps that provided direct access to the new motorway. The project will force the relocation of many services; including 6.1 kms of pipelines.

Solution

In late 2015 Steel Mains was contracted to manufacture and deliver the pipes for the pipeline. The pipeline was constructed with mild steel, fusion bonded polyethylene coated, cement lined pipe complying with Australian Standards AS1579, AS4321 and AS1281. The contract called for welded ended pipe types and as such a combination of spherical slip-in and ball and sockets ended pipes were supplied. Due to very tight delivery schedules Steel Mains utilised both its manufacturing facilities in Wacol, Queensland and Somerton, Victoria to fulfil the contract.

Achievements

With the projects tight schedule, minimal disruption to traffic and limited accesway to divert existing mains, Steel Mains worked with the contractor to ensure that all pipes were available in the tight delivery windows to facilitate the common trenching laying methodology. This was achieved by having the two factories producing pipes at the same time to reduce delivery periods. Steel Mains also worked with the client and delivered pipes to an off site storage area. This off site storage area enabled the lay contractor unfettled access to all of the pipe sizes on the contract, obviating any downtime issues. Steel Mains also worked with the client and developed a maintenance regime for the pipes whilst they were held in the off-site storage area.this regime ensured that pipe quality was not impacted by long term pipe storage.

Project: Darlington Upgrade Project Pipeline

Principal: Department of Planning, Transport and Infrastructure - SA

Location: Darlington SA

Completion: 2016

Supplied: 6.1km of 1290, 1016, 960, 762 and 502 OD Welded Ball & Socket and SSJ Joint Sintakote® Steel Pipe