

Cherry St Level Removal Crossing

Steel Mains remained operating under Victoria's Stage 4 Lockdown manufacturing and supplying critical water infrastructure



Project Need

With Victoria's state population expected to reach 10 million by 2050, Victoria's Big Build is delivering 165 major road and rail projects which includes the removal of 75 level crossing – one of which is The Cherry St Level Removal Crossing in Werribee, Victoria. Victoria's Big Build has been established by the Victorian Government to deliver rail and road projects that will keep Victorians moving in the coming decades.

The Cherry St level crossing project involved supplying Mild Steel Cement Lined (MSCL) pipes and fittings to assist with diverting two existing potable watermains owned by City West Water and Southern Rural Water.

Solution

McConnell Dowell Senior Pipeline Engineer Andrew Tsitas explains,

"This new diversion road is routed through an existing services easement currently occupied by a concrete lined open channel that transports raw water to market gardens... This channel is required to be diverted underground into a mild steel cement lined pipe for 250 m approximately 20 m to the west."

"The pipeline is predominately rubber ring jointed (RRJ-D) spigot and socket connection, with exception of the welded tie-ins either end. A 60 t crawler crane was selected to handle each pipe which weighed 11,300 kgs per 13.5 m length."

The new MSCL pipeline is made up of approximately 250m of 1750 OD RRJ pipe and 350m of 660 OD SSJ pipes with a cement mortar lining with applied cathodic protection. In addition, Steel Mains supplied custom-made 1750 RRJ bends and tees for the project.

Achievements

In the midst of a worldwide COVID-19 pandemic Steel Mains essential pipe manufacturing remained continuous with safety precautions in place including daily temperature checks, mandatory face masks and 1.5m social distancing.

Under the Stage 4 hard lockdown, production was forced to be scaled back. Despite the reduced manufacturing capacity, Steel Mains' flexible labour model assured the pipes and fittings were delivered on time. The pipes are now installed and in operation delivering potable water to the local community.

Project: Cherry St Level Removal Crossing

Principal: Southern Rural Water & City West Water

Location: Werribee, Victoria

Completion: 2020

Supplied: 250m - 1750 OD RRJ & 350m 660 OD SSJ