

PICTON STREET STORMWATER

SOLVING A CENTURY-OLD COMBINED SEWER PROBLEM

For decades, Freemans Bay in Auckland experienced around 40 combined sewer overflow events each year, caused by century-old pipes sharing a single network. Auckland City Council commissioned the \$24 million Picton Street Network Separation to separate the systems and increase capacity for the growing inner city.

GRP SELECTED FOR PERFORMANCE AND PROGRAM CERTAINTY

In 2020, Empire supplied 360 metres of OD616, 365 metres of OD1127, and 210 metres of OD1499 BOSSPIPE™ Centrifugally Cast GRP (CC-GRP) Jacking Pipe. Discussions between Empire, March Constructions, and Rob Carr confirmed GRP was preferred over concrete for structural performance, light weight, and supply certainty.

"Picton Street required three pipe diameters through one program. CC-GRP gave the contractor consistency across every size," said Aaron Mackley, Director of Sales & Operations at Empire Infrastructure.

MULTI-DIAMETER MICROTUNNELLING IN AN URBAN CORRIDOR

Works required microtunnelling through a dense inner-city corridor with active traffic, residential buildings, and existing utilities in close proximity. Coordinating three pipe diameters within a single program added scheduling complexity. Empire staged supply, ensuring each diameter was available to match the contractor's tunnelling sequence.

IMPROVED NETWORK RESILIENCE FOR A GROWING CITY

The completed separation has materially reduced combined sewer overflows in Freemans Bay, delivering long-term improvements to water quality and system resilience for one of Auckland's most established residential areas.



PROJECT DETAILS

Location: Auckland, NZ

Contractor: March Constructions & Rob Carr Pty Ltd

Client: Auckland City Council

Product: BOSSPIPE™ CC-GRP

Scope: 935m of OD616, OD1127 & OD1499 Jacking Pipe

Stiffness: SN50,000

Pressure: PN 1

Installation: Microtunnelling

The project demonstrates Empire's capability to supply multiple large-diameter GRP pipe sizes across a complex multi-stage urban program in New Zealand, delivering a long-term solution to a longstanding combined sewer overflow problem.

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