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KAMERUNGA ROAD RISING MAIN



fgf's Civil Construction Division delivered the installation of a 500 OD PE dedicated sewer Rising Main on behalf of the Cairns Regional Council Water & Waste Department.

The construction of this rising main was required due to increased loads within the sewer catchment area and growth in the Redlynch Valley area.

The Rising Main is approximately 3194 metres and runs from 165m North-East of the SPS RL1 & BM1 junction to SPS ST1 near the Water and Waste Depot in Magazine Street, Stratford.

Construction of the new pipeline utilised a combination of trenched and trenchless methodologies (HDD).

Project opportunities and challenges included:

- The pipeline alignment predominantly traverses the northern side of the QR corridor, between an existing 450 diameter AC water main and QR infrastructure. FGF worked in conjunction with relevant stakeholders to safely manage minimum separation distances within an extremely tight corridor over long distances. Alternate construction methodologies were employed to enable successful delivery of this work package.
- Two locations were identified where open trenching techniques were not possible due to insufficient separation distances being available adjacent to existing thrust blocks. At these locations FGF proposed alternate solutions to enable works to be completed, namely utilising HDD resources available onsite, passing the pipe underneath rather than beside.
- A collaborative approach with CRC enabled crossing of the 450 diameter AC water main in two locations with minimal clearance and a cut-in connection to the existing sewer main to be undertaken efficiently and without incident.

Location:

Freshwater

Client:

Cairns Regional
Council,
Water & Waste Dept.

Civil Engineering

Consultant:

GHD

Duration:

Jul – Dec 2014