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## NORTHERN BEACHES TRENCHED & TRENCHLESS WORKS



fgf's Civil Construction division delivered the trenched and trenchless (HDD) construction of a new Northern Beaches Trunk Water Main and Cedar Road Water Mains. The dedicated inlet main is located on the western verge of the Captain Cook Highway between the Captain Cook Highway cross and the Palm Cove reservoir site. The trunk reticulation main follows the dedicated inlet main alignment to Warren Road.

Project opportunities and challenges included:

- Positive stakeholder management enabled successful directional drilling with access required through private properties.
- Successful management of rock and drilling operations to enable efficient installation of bore pipes.
- A collaborative approach undertaken with the Client to utilise an additional HDD section to avoid site constraints. Eliminating the requirement to remove additional trees and the need to trench Foley Road.
- Successful jacking of envelope pipe under the Captain Cook Hwy enabling ease of carrier pipe installation.
- Responsiveness to identified design interruptions, to enable continuation of works onsite minimising delays.
- Realignments undertaken to avoid removal of significant trees, reducing perceived impacts of the construction by the public.
- Effective traffic management to enable successful trenching works across Alexandra St, Bokissa Rd and Warren Rd.
- Collaboration and planning with the client on crucial live connection works.
- Ongoing positive relationships with the Client and Superintendents Representative.

### Location:

Palm Cove

### Client:

Cairns Regional  
Council, Water &  
Waste Dept.

### Civil Engineering

### Consultant:

Jacobs

### Duration:

April 2014 – Dec 2014