

# GEO | construct



Project **Island Point Road, Port Douglas, Qld**

Technology **Launched Soil Nails and Composite Retaining Wall**

Client **Prime Constructions Pty Ltd**

Completed **2010**

The Island Point Road project consisted of the construction of a composite soil nail, micropile, Geosynthetically Confined Soil GCS® Wall system. Affording incredible ocean views this prestigious residential and holiday location provided developers with unique site stability challenges.

Geo Construct (formally PD&C) and consulting partner Geo Design (formally MFC) were asked to provide an innovative and economical design solution that would allow the client to replace a proposed seven metre high concrete retaining wall with a landscaped planter boxes whilst maintaining stability to an adjacent unit complex. With the proposed concrete wall concept quoted in the vicinity of \$1M, Geo Construct was able to provide the client with an alternative design-construct solution for approximately one third of the cost.

Working closely with the client, their architect and landscape design team, PD&C provided the developer with the finish they wanted to achieve, protected the adjoining property from instability and was able to satisfy architectural design ideas to construct a near vertical composite GSC/concrete planter box retaining wall.

Completed in less than 6 weeks, this complex project involved an innovative approach and necessitated a seamless relationship between design and construction phases to achieve an incredible result that was both economical and architecturally pleasing.

Photo: One of only four machines in the world, the ballistic soil nail launcher effortlessly installs soil nails at a rate of approximately 100 nails per day.



Photo: Shotrods are installed and plated, with micropiles and strip drains along with block planter boxes.



Photo: Complete composite GCS & block retaining wall system ready for landscaping.

