

OUTENIQUA PASS CULVERT PROTECTION
R29 BETWEEN GEORGE & OUDTSHOORN, WESTERN CAPE

HYDRAULIC & EROSION CONTROL / CULVERTS

Product: Gabions & Reno Mattresses

Problem

In 1993, Maccaferri was approached by the client to provide geotechnical solutions and products at the Outeniqua Pass culvert outlet along the R29.

The flow from the culvert had caused severe erosion of the road embankment.

Solution

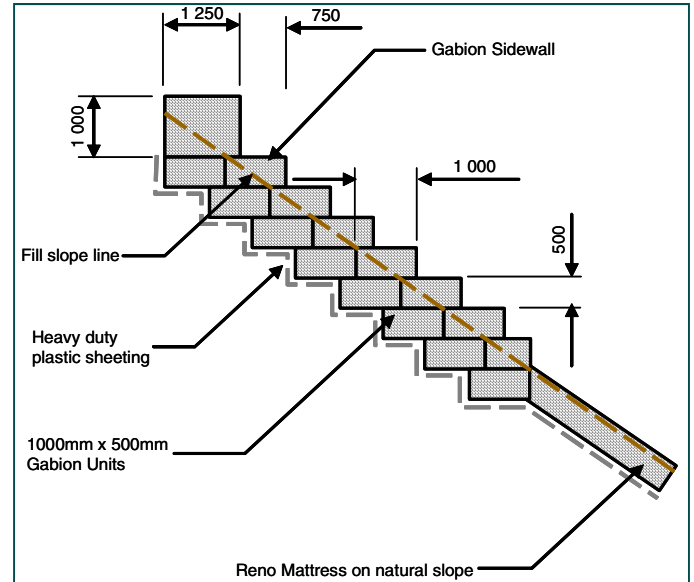
A gabion cascade, 1,5m wide was proposed to channel the flow from the culvert down the embankment, away from the road.

The use of the gabion structure compared to the normal rigid structure is cost effective and being a semi-rigid structure, is flexible and durable to any differential settlement or movement that may take place.

Benefits

Rocks from the surrounding area were used to fill the gabions which reduced construction costs significantly.

This environmentally sound solution promoted the establishment of vegetation, creating a structure which would blend into the natural environment.



Typical Section



After construction

Date: Aug 1997



After construction

Date: Aug 1997

Client name:

PROVINCIAL ROAD DEPARTMENT, W. CAPE

Main contractor name:

LTA EARTHWORKS

Consultant:

KANTEY & TEMPLER

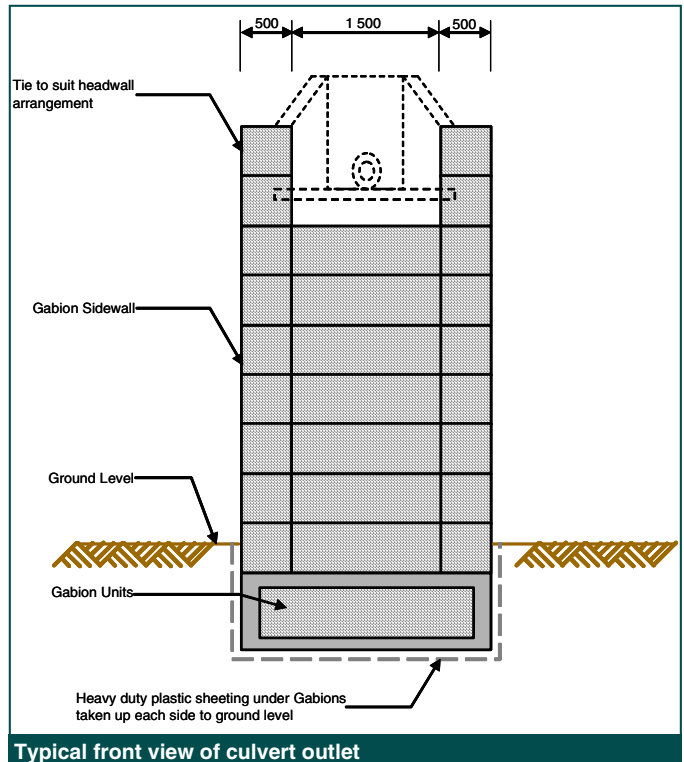
Product used:

GABIONS

Construction info:

Construction date: SEPTEMBER 1993

Completion date: JUNE 1997



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