



AMOMA HAUL ROAD CULVERTS GHANA, AFRICA

CLIENT

NEWMONT GHANA
Subconsultant to Golder Associates
1st Floor, KEK Insurance Building
40-41 Senchi Street, Airport Residential
Accra, Ghana
Contact: Richard Wesenberg
[+233] (0) 302 779 124

LOCATION

Ghana, Africa

PROJECT COMPLETION

Spring 2010

DESCRIPTION

This project consisted of the design of 5 cast-in-place concrete culverts which allowed pedestrians and a stream to pass under a gold mine haul road in the West African nation of Ghana. Single-cell 3 meter wide by 3 meter tall cast-in-place concrete culverts were used for pedestrian crossings and three-cell 2 meter by 3 meter tall culverts were used for the stream crossing. The culverts were designed using South African and U.S. standards. The design incorporated the specific loads of the very large and heavy mining haul equipment and trailers. These loads resulted in unusually thick top and bottom slabs. Soil berms, 2.2 meters in height, were constructed on top of the culverts to act as crash barriers for the large vehicles. Cast-in-place concrete wing walls were also designed for each culvert. The design was completed in within a very short timeframe in order to meet the schedule of the client. Other services include shop drawing review and review of contractor specific materials and variations on the construction.



- Structural Design of Culverts
- Retaining Wall Design
- Customized Loadings
- Contract Plan Preparation
- Construction Services