

PIPE JACKING CASE STUDY

Bargeddie, Scotland



www.pipejacking.org

PROJECT	Bargeddie, Scotland
CLIENT	Scottish Water/Farrans
CONTRACTOR	A E Yates Trenchless Solutions Ltd
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Herrenknecht AVN 1500
VALUE	£270,000



PROJECT OVERVIEW

An undertrack crossing was installed at Bargeddie in Scotland for a sewer diversion as part of the M8 motorway improvements.

DESCRIPTION OF WORKS

The 1500mm diameter undertrack crossing, 30m in length was installed using a Herrenknecht AVN 1500 machine, driving through made ground and clay, overlying sandstone and mudstone. The project, which was completed on time, required a continuous working pattern.

In preparation for the drive the contractor designed and constructed temporary works comprising a reinforced concrete backwall, a 9 x 5 metre sheeted drive pit and 5 metre square reception pit. Both pits were approximately 5 metres deep.

During the excavation of the drive pit, the existing concrete sewer pipe was exposed. This was protected and incorporated into the reinforced concrete jacking backwall. Following the removal of the pipe jacking equipment the temporary reinforced concrete backwall was partially demolished to allow the existing sewer to be diverted through the new tunnel.

The reception pit was constructed to receive the tunnelling machine and accommodate the construction of the permanent works manhole.

FURTHER INFORMATION: www.aeyates.co.uk

