

PIPE JACKING CASE STUDY

Main Road Sidcup FWFAS



www.pipejacking.org

PROJECT	Main Road Sidcup FWFAS
CLIENT	Thames Water/Dean and Dyball
CONTRACTOR	A E Yates Trenchless Solutions Ltd
TUNNELLING MACHINE	Herrenknecht MH3 and guided auger
VALUE	£513,000



PROJECT OVERVIEW

Thames Water Utilities commissioned a scheme that involved upsizing of the sewerage network to alleviate periodic flooding in the Main Road area of Sidcup, in Kent.

DESCRIPTION OF WORKS

The trenchless pipe installation works required construction of two sheeted and framed pits for the backacter and guided auger and a 4000mm diameter, 6 metre deep segmentally lined caisson reception pit.

Two 1800mm diameter pipe jacks, each 98 metres in length, were installed from a central sheeted and framed drive pit using a Herrenknecht MH3 backacter machine. Both drives were designed and installed on a curve with a 360m radius.

Two further drives, 375 mm diameter and 10 metres and 58 metres in length were installed using a guided auger bore technique.

Ground conditions were predominantly firm clay with occasional silt and sand lenses and the works were accommodated in extremely compact residential working areas with restricted working times.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction were over 26% for the 1800mm and 375mm diameter drives.

Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.aeyates.co.uk

