

PIPE JACKING CASE STUDY

Enfield Sewerage Scheme Contract 1



www.pipejacking.org

PROJECT	Enfield Sewerage Scheme
CLIENT	Meath County Council
CONTRACTOR	Ward & Burke Construction Ltd
TUNNELLING MACHINE	Herrenknecht
VALUE	€810,000



PROJECT OVERVIEW

A new sewer network was installed beneath the main urban artery of the town of Enfield in Meath County, by microtunnelling. The new sewers were installed to a depth of 3 metres and within 5 metres of existing structures. The presence of hydrocarbons in the ground required the excavated material, from both shaft and tunnelling works, to be stored in sealed containers which were then transported to a suitable licensed facility.

DESCRIPTION OF WORKS

145 metres of 600mm diameter pipe was installed by microtunnelling over three drives. Two 3.2 metre shafts were constructed to launch the tunnelling machine and two 2.4 metre diameter shafts constructed for machine recovery. The shafts which were in the range 4-5 metres deep were installed by caisson method. Two of the drives were through a mix of sand, silt, gravel and boulders with the third drive through hydrocarbon contaminated ground.

In addition 145 metres of 450mm clay pipe was installed by auger boring.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction in this highly trafficked urban area were 20%.

Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.wardandburke.com

