

PIPE JACKING CASE STUDY

Hatchlands Road Flood Alleviation



www.pipejacking.org

PROJECT	Hatchlands Road Flood Alleviation
CLIENT	Thames Water Utilities
CONTRACTOR	Terra Solutions Limited
PIPE SUPPLIER	Stanton Bonna
TUNNELLING MACHINE	1200mm mechanised backactor



PROJECT OVERVIEW

The Hatchland's Road area of Surrey was prone to repeated heavy flooding of residential areas and thus flood alleviation works were required as a preventative.

This contract required the construction of a 5.2m diameter caisson shaft and 3 deep sheeted pits for launch and reception approximately 6m deep. Three trenchless installations were carried out. Firstly a 120m pipejack of 1200mm diameter and then 60m drives of 300mm and 450mm by auger-boring. All works were carried out in a build-up residential area with limitation on space and were completed successfully and ahead of schedule.

DESCRIPTION OF WORKS

The 120m pipejack was carried out using a mechanised back-hoe and required an interjack system due to the distance. Due to level differences in the caisson shaft temporary working platforms were designed for the pipejack and the auger-boring. Terra was responsible for all health & safety co-ordination for the trenchless element of works including management and site safety, risk assessments, site inspections and safety monitoring, enforcement of safety policy and rules, effective communication with operatives, implementation of the company site specific safety plan and H&S management systems.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction were 47% for the 1200mm diameter drive. Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.terrasolutions.co.uk

