

Case Study:  
Ely Southern Bypass

**Client:**

Volker Fitzpatrick

**Sector:**

Highways

**Services Provided:**

Rotary Bored Cast In Place Piles

**Location:**

Ely, Cambridgeshire

**Value:**

£1.6m

**Year:**

2017



A large proportion of Van Elle's work is repeat work for regular Clients. This repeat work is frequently due to Van Elle successfully delivering complex or challenging projects for our Clients on time and to budget and being selected for future collaboration.

The Ely southern bypass is a new road connecting the A142 at Angel Drove to Stuntney Causeway, The project included a number of bridges over the railway line and the River Great Ouse and its floodplains and is in an environmentally sensitive region.

Volker Fitzpatrick secured the project from Cambridgeshire County Council and appointed Van Elle following detailed technical, commercial and environmental discussions. The project required significant piling works in very soft soils and due to the soil conditions of the region had a high water table. In addition Site Investigation data did not provide soil information to the depth that the piles were expected to need to reach.

Van Elle produced rotary bored piles of 1200mm diameter and depths of over 42m. The piles required casing the upper 9m with the remainder of the piles being bored in dry and stable conditions. To allow the construction of high quality piles in these challenging conditions the length of pile had to be dewatered before tremieing the concrete. The removed water had to be carefully managed to ensure no discharges into the local environment including passing through silt management systems before being discharged in accordance with the project permitting.

This highly successful project is testament to Van Elle's capability to deliver high quality projects in highly variable and challenging ground conditions and to work collaboratively with our Clients at all stages of construction projects.

