

The Complete Construction Service



Donegan
Civil Engineering



Title:	<u>Bedford Street</u>
Location:	Darlington
Client:	Northumbrian Water
Project Manager:	Ryan Browell
Main Contractor:	Seymour CEC
Commenced:	February 2011
Completed:	April 2011
Value:	£350k

Background Of The Works:

This was a flood relief scheme for Northumbrian Water. Along with upsizing the local sewer network the main contractor Seymour CEC appointed Donegan to construct a 25.00m Internal diameter shaft which would provide an additional 2,500m³ / 2.5 million litres of foul water storage capacity.

Scope Of The Works:

Prior to any construction work being carried out, the Main Contractor undertook a reduced level dig in the general area of the shaft.

Civil Engineering & Tunnelling Contractors

The Complete Construction Service



Donegan
Civil Engineering

Once the working compound had been established, the collar excavation was carried out, and initial rings constructed.

The 25.00m internal diameter segmental shaft was underpinned to a depth of approx 7m in soft clays.

Once excavation had reached formation level and all the rings had been built grouted and caulked a mass concrete blinding was placed.

After steel reinforcement was installed for the structural concrete base slab, with starter bars protruding for the 4 no. concrete support columns, as shown in the picture on the right, for the precast concrete cover slab.

