

The Complete Construction Service



Donegan
Civil Engineering



Title:	<u>Featherstone Prison</u>
Location:	Wolverhampton
Client:	Ministry Of Justice
Project Manager:	Mark Barrett
Main Contractor:	Kier
Commenced:	October 2010
Completed:	January 2011
Value:	£400k

Background Of The Works:

Kier Build were appointed as main contractor on this project for the Ministry Of Justice and subsequently appointed Kier Construction to carry out the civils / ground works package.

Kier Construction contacted Donegan Civil Engineering with a specialist design and build subcontract for the construction of the new prison pumping station along with a number of surrounding chambers and the mechanical & electrical installation works.

Civil Engineering & Tunnelling Contractors

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Scope Of The Works:

Design and construction of the 9.00m \varnothing segmental shaft / pumping station which was sunk by caisson to a depth of approx 10m. The boreholes indicated sand overlying sandstone which would be encountered in the bottom of the shaft. However the sandstone proved to be much weaker than anticipated and with the presence of groundwater made construction of the reinforced base slab challenging.

The surrounding structures included a Valve Chamber, Flow Control Chamber, Isolation Penstock Chamber and Macerator Chamber. Along with these structures there was also the interconnecting pipework, ductile iron shaft backdrop and rising main pipework.

The M&E works included 3 variable speed submersible pumps, rising main pipework, isolating penstock for maintenance purposes, a macerator channel grinder for breaking up solids and all electronic control equipment.



Europa Way
Stockport
Cheshire
SK3 0WT

Phone: 0161 495 7300
Fax: 0161 428 5553
Web: www.donegan.co.uk
E-mail: mail@donegan.co.uk