

Project Profile



Project Title	Rossendale UPM
Client	DCT/United Utilities
Project Value	£9.2m
Contract Conditions	ECC Option C
Duration	12 months
GHA Livigunn Services	Civil and Structural and Geotechnical Engineering
Description	GHA Livigunn were engaged by specialist shaft sinking contractor DCT to carry out the design of temporary works and the structural design of the roof.

The scheme comprises a 25m segmental shaft sunk to a depth of 35m using underpinning techniques. The site was tight with very restricted crane access. As a consequence a conventional precast roof could not be used and GHA Livigunn designed a 2 way spanning insitu concrete waffle slab, this method of construction is more commonly seen on multi storey buildings and this application is thought to be a first for a detention tank.

Temporary works design duties included the design of crane platforms, slope stability checks, scaffolding checks/inspection and collar design.

Cheadle

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