

Case study

Fire Control Regional Headquarters



Project Overview

Client
Office of the Deputy Prime Minister

Location
Wolverhampton

Project Value
£12m

Service Provided
Structural engineering consultancy
Civil engineering consultancy

Added Value
Fully co-ordinated structural design utilising 3D modelling techniques allowed M&E services to be incorporated within structural zone resulting in reduced building height.

Overview

The Regional Fire Control Centre at Wolverhampton forms part of the governments national infrastructure program to handle and co-ordinate all fire and rescue services using a single national resilient operating system.

Project Description

This BREEAM excellent building comprises a three storey structural steelwork frame utilising composite concrete suspended floor slab construction together with traditional shallow reinforced concrete foundation pads on vibro treated formation.

Detailed co-ordination of the structural steelwork frame and M&E plant and services was achieved with the use of 3D structural modelling design and detailing software incorporating clash detection techniques.

As part of the scheme a new adoptable highway and traffic island was constructed utilising tank sewer surface water attenuation beneath the main carriageway.



“ This was a particularly challenging project that required meticulous co-ordination of extensive plant and services located within the structural zone of the building. This attention to detail paid dividends during the construction period with a fully co-ordinated solution realised on site

Jim O'Donnell - Project Director

Public Sector