

Contract in brief

Location:

Heathrow Terminal Five

Client:

BAA / Laing O'Rourke

Consultant:

Mouchel Parkman

Blackwell Role:

Sub Contractor

Form of Contract:

ECC Options A, C D and E

Contract Value:

£70M+ totalling 12 contracts

Contract Start:

May 2001

Contract Period:

300 wks

Blackwell site management

Contracts Manager:

Niall Fraser

Project Manager:

Rob King

Site Manager:

T G Jones

Services Included:

- Civil Engineering ✓
- Earthworks ✓
- Geotechnical
- Remediation ✓

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Contract Summary:

Blackwell was appointed a framework contractor at an early stage in the design development phase and has worked in partnership with the team to provide budgets, programme, value engineering and technical advice.

The works include significant quantities of earthworks arising principally for the need to construct a series of major underground facilities such as baggage handling stations, service and access tunnels. In addition to provide maximum utilisation of the new terminal, a large area of aircraft taxiways and parking will be required.

During the construction works the capacity or operation of the existing airport cannot be compromised and consequently the management of the large volumes of earthworks stockpiles and the minimising of double handling has been a key driver in the programme.

Key Processes:

Prior to the main works commencing there have been a number of advanced works contracts let to prepare the site, relocate vegetation and undertake archaeological works. The main works commenced in 2002 and included:

- excavation of 6.4 million cu.m. of river terrace gravels and London clays
- processing and re-handling approximately 1.8 million cu.m. of materials
- preparation of 675,000 sq.m. of aircraft pavement formation
- stabilisation, modification of soft unacceptable materials
- construction of new motorway access embankment

The project is the UK's largest construction site with works programmed to continue until end of 2007. The remaining earthworks will be phased to coincide with the release of backfilling areas and pavement preparation. At peak we have deployed some 260 items of plant resulting in weekly productions of approximately 200,000 cu.m.

