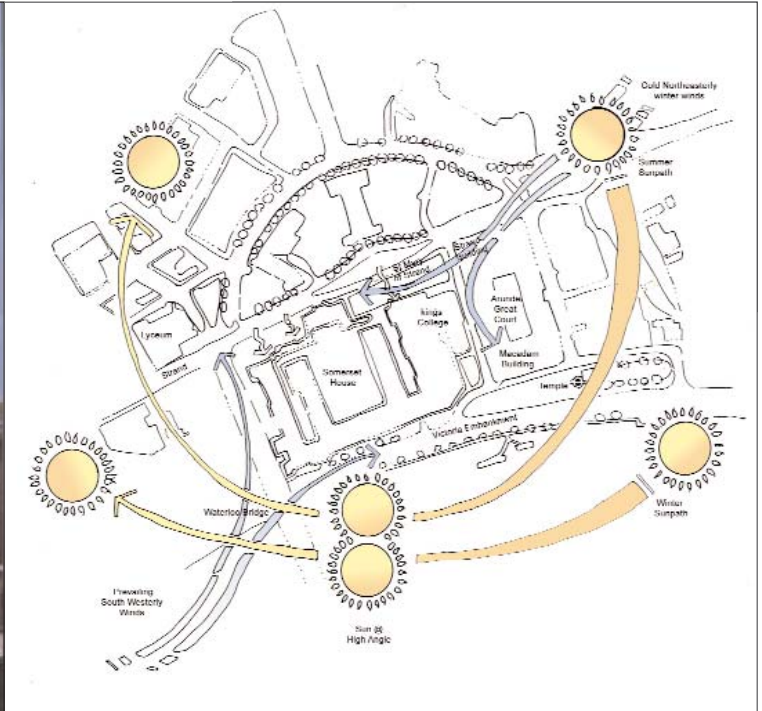


# BATTLE McCARTHY©

Consulting Engineers & Landscape Architects



## PROJECT:

King's College, London - The Strand Campus

## CLIENT:

King's College

## ARCHITECTS:

Inskip & Jenkins Architects Ltd

## BM SERVICES:

Masterplan and infrastructure and full MEP design for Phase 1 works

## VALUE:

£30million

## DESIGN BRIEF

To design a high quality building that will be flexible and adaptable in the future. As an effective educational facility the building must also offer high comfort standards and take full advantage of the existing building orientation and climatic conditions.

The first phase of the masterplan is currently underway, including new service cores and a new 3 storey laboratory extension.

## DESIGN INITIATIVES/ACTIONS UNDERTAKEN

Battle McCarthy were requested to provide services and environmental design for incorporation into the proposed redevelopment of the Strand Campus of King's College. This guidance was in support of architectural masterplanning provided by Inskip & Jenkins Architects Ltd.

The services and environmental design provided an overview of the general infrastructure strategy for the whole of the Strand Campus site. More detailed design was also provided for the two major service cores and the South Court Laboratories.

A number of design opportunities and environmental objectives were highlighted and implemented in the overall masterplan;

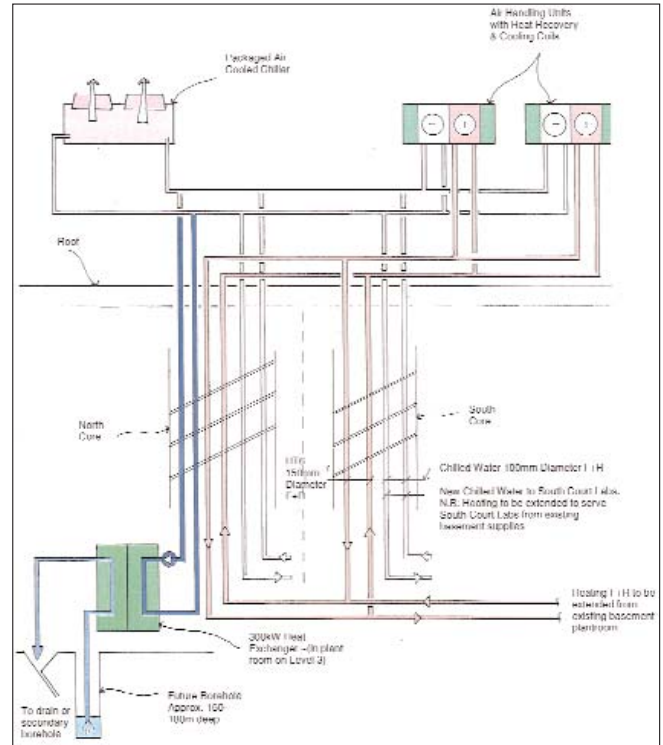
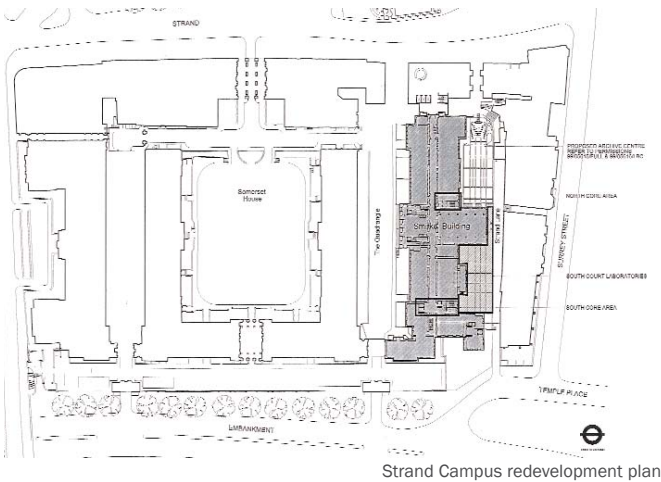
- energy alternative cooling strategies including night cooling  
borehole water  
renewable energy opportunities  
passive solar heating  
wind driven ventilation
- health global daylighting strategy  
natural ventilation with opening windows  
high comfort standards
- water rainwater harvesting and recycling  
minimum potable water consumption  
greywater systems
- materials sustainable materials strategy  
recycling and re-use strategy
- ecology meet local agenda 21 guidelines  
use BREEAM as a guideline
- education the design should be appropriate to users but also inspire and stimulate students

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Battle McCarthy carried out extensive studies of the existing services on the King's College Strand Campus, with particular reference to the Grade I listed Smirke Building and early projects (Cores and South Court Laboratories). A number of in situ surveys were also undertaken which enabled the primary services to be identified and located on plan and section.

A strategy for the Campus building services infrastructure was developed which will underpin the masterplan over the coming years.

The first phase of the £30million masterplan is currently being undertaken on site and includes the new £15million South Court Laboratories and Archive Centre.



When fully operational the riser/ducts in the Cores will contain;

- new lifts and stairwells
- toilets
- hot and cold water services
- rainwater and drainage pipes
- 100mm dry riser
- electrical busbars
- communication
- data and power cabling/wiring
- supply air ducts
- heating and chilled water flow and return pipework
- fume exhaust ducts
- fire/security equipment
- general trunking

Provisional sizes have been assigned to these services, which in turn have been used to determine the overall dimensions of the primary risers. It should be noted that tolerances in the Cores are extremely tight; there is little slack in the existing bays which vary in size from level to level as a result of constructional inaccuracies and changes in structural systems and materials used.

