

BAART HARRIES NEWALL
CHARTERED ARCHITECTS



**EDUCATIONAL
PRACTICE PROFILE**

*Architecture and Planning
Interior Design
Conservation
CDM Principal Designer*

BHN
architects

Professional Services
Architecture and Planning
Interior Design
Conservation
CDM Principal Designer

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BAART HARRIES NEWALL



Wilderhope House designed by Samuel Pountney Smith in 1860.

BAART HARRIES NEWALL

The collaborative relationship we form with our clients is central to the way we work. We seek to establish a clear understanding of the ambitions and objectives of our clients and translate them into high quality, sustainable architectural solutions.

Over the years we have created a diverse body of work in both the public and commercial sector, the quality of which has been recognized by repeat client commissions and many architectural awards.

We offer design excellence, a solid base of technical expertise and experience developed through our work with a wide range of clients.

We know from our years of experience that finding the right solutions through architecture relies on asking the right questions. Dialogue is at the heart of what we do.



BAART HARRIES NEWAL

Educational Buildings

The experience gained in this sector, over many years, allows Baart Harries Newall to provide an excellent service that is borne out by the level of repeat commissions.

We are extensively involved with all educational sectors, from nurseries to universities. The range of work varies from modest extensions to the construction of new schools, such as the RIBA Award winning St Jude's Primary School in Wolverhampton.

We have undertaken master-planning for schools and colleges including several secondary schools for Worcestershire County Council and Telford and Wrekin Council as part of their BSF programmes.

Work for independent schools includes a 10 year, £10 million, programme of development at Concord College, Shropshire. The new development included four boarding houses, a sports complex, performing arts centre, a swimming pool and student's canteen. Two of the Buildings received RIBA Awards.

Similarly we have undertaken over fifty projects for Shrewsbury School over a considerable period of time, including a new science building and a new boarding house.

This area of work requires a sensitive approach to the development of effective design solutions following the establishment of a clear brief. In educational work there are often several client representatives and a design framework needs to be established at an early date to allow a rich participatory design process to emerge. Once the design has been formulated a methodical control over the building works is implemented, often in the form of elaborate phasing of the works to allow the school to continue it's daily routine with the minimum disruption by construction works.

Many of our education projects are illustrated on our website at www.bhn.co.uk



BAART HARRIES NEWALL sustainability

Building Design and Environmental Sustainability

Environmental sustainability, energy efficiency and building durability are at the forefront of current design considerations. The provision and use of buildings has a huge impact on the environment. Energy used during building construction, for heating, cooling and lighting buildings, and the chemicals present in materials used in building services and components, all directly affect occupants and the wider environment.

Many of our projects are assessed by the British Research Establishment's Environmental Assessment Method. This assessment method seeks to minimise the adverse effects of new buildings on the environment at global and local levels, whilst promoting healthy indoor conditions for the occupants. The assessment considers a wide range of internal and external environmental issues including energy and water use, renewable resources, sustainability, transport, comfort of occupants and ecology. We have attained BRE AAM Excellent rating on three projects to date.

We received the RICS Sustainability Award for the 'Harris Centre' – a new teaching facility at Walford College, Shropshire. This building incorporates a biomass boiler, with energy supplemented from a ground source heat pump, a wind turbine and photovoltaic panels. While this particular building has a range of renewables we believe in a clear common sense approach to sustainable buildings: they should be carefully orientated, well insulated, well sealed and well built to provide buildings that will last. They should also be delightful places to occupy – to ensure longevity!

In terms of a wider perspective on sustainability we believe the re-use of existing buildings is a matter of urgent concern. We believe the transformation of the existing building stock will prove to be one of the greatest challenges. We have undertaken a number of exciting projects working with existing buildings, re-inventing them, enhancing their energy performance and extending their life span. Examples of such projects include the conversion of a warehouse into a learning centre for Shrewsbury Sixth Form College and the conversion of an existing church and an existing Civic Hall into apartments.



FORDBRIDGE COMMUNITY PRIMARY SCHOOL

A new 2.5 form entry primary school, with nursery and community provision, commissioned by Solihull MBC.

The school is situated in Chelmsley Wood and forms part of a regeneration programme for North Solihull.

The new school brings together primary teaching facilities, a private nursery and community facilities. The teaching accommodation is arranged into three distinct teaching phases.

Adjacent to the school site is a large primary care facility, there are also some shops nearby. It is the local authority's ambition to make this area into a 'village centre'. The approach to the school reflects this ambition, with a large public courtyard space, enclosed on three sides, to the front of the school.

Beyond the public courtyard is a private teaching courtyard. The teaching provision is set around this space.

Phase 3 is set on the first floor, and opens out onto a teaching terrace.

The building has low pitched roofs with overhanging eaves to provide shade to the extensively glazed classrooms. Constructed in masonry, the building has high thermal mass to regulate internal temperatures. There is natural ventilation throughout.



COLESHILL HEATH SCHOOL

A new 2.5 form entry primary school, with nursery and community provision, commissioned by Solihull MBC.

The school is situated in Chelmsley Wood, and forms part of a regeneration programme for North Solihull.

The new school brings together primary teaching facilities, a private nursery and community facilities. The teaching accommodation is arranged into three distinct phases - each set within a 'pavilion'.

Between the teaching 'pavilions' are external teaching courts. Canopies and projecting roofs provide sheltered external areas around the edge of the building for outside teaching and play.

At the heart of the building is an enquiry hub. The school halls, the administration suite, the staff room and the teaching accommodation all connect back to this central area - which also serves as the main entrance foyer.

The building is single storey with low pitched roofs and overhanging eaves to provide shade to the extensively glazed classrooms. Constructed in masonry the building has high thermal mass to regulate internal temperatures. There is natural ventilation throughout.



WREKIN COLLEGE – NEW BUSINESS SCHOOL

A proposal for a new extension wing to an existing single storey 1950's teaching block to provide new business school facilities including lecture theatre, boardroom and associated facilities.

The form of the building is conceived of as a series of discreet objects / rooms arranged on a raised plinth. A regular roof supported by columns oversails the architectural elements below, providing a sheltered edge around the building.

The drum form of the boardroom acts as a highly visible focal point at the centre of the college campus.

The use of red brick reflects the surrounding red brick buildings on campus with the curtain walling finished in black aluminium.



ST JUDES PRIMARY SCHOOL, WOLVERHAMPTON

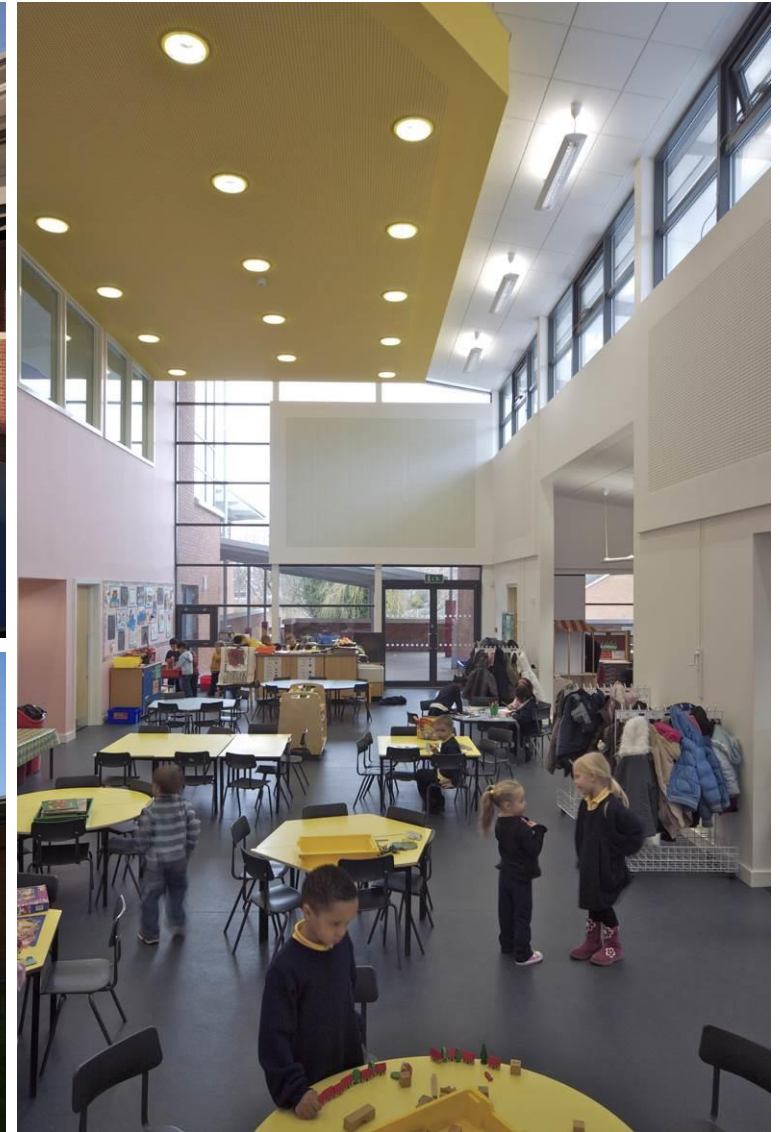
A new two form entry primary school with nursery provision.

The scheme evolved through an extensive participatory design process, which involved the school staff, parents, school governors and Wolverhampton City Council. Presentations of the design in development were also made to the school children and the local community.

The school is situated on a steeply sloping site. The design incorporates a split level plan which allows the building to step down the site in a cascade of roofs and terraces.

The building was procured by a partnered contract in two phases. The first phase involved the construction of the new school building. The second phase comprised the demolition of an existing junior school and the construction of playground facilities.

The school received the SCALA Award for 'Civic Building of the Year' in 2007, an RIBA Award in 2008 and a Civic Trust Award in 2009.



LAWLEY VILLAGE PRIMARY ACADEMY

A new one form entry primary school, with community facilities for Telford and Wrekin Council.

The school forms part of the Lawley Sustainable Urban Expansion Plan, providing new facilities for the adjacent residential development.

It is a key component in 'Lawley Square' – set at the heart of the new urban development. The school hall is designed as a focal point in Lawley Square, while the adjacent teaching wing reinforces the adjacent street line.

The hall roof extends past the building envelope to form a canopy which both signals the main entrance to the school and offers shelter.

Internally the school is arranged with classrooms paired adjacent to shared activity spaces. The shared activity spaces are expressed on the road elevation as a series of large window apertures.

The building is designed to allow for expansion to a 2FE school at a future date.



SHREWSBURY SIXTH FORM COLLEGE – EARTH SCIENCE BUILDING

Shrewsbury Sixth Form College is located within the river loop of Shrewsbury Town. The Priory site is the major college site which is adjacent to Victoria Avenue overlooking the River Severn.

BHN was commissioned to design a new building including 4 classrooms, a geography laboratory, a common area for students and a staff room. It was part of their brief that the building should demonstrate a concern for sustainability.

BHN responded to this 'green' agenda by designing a highly insulated and well-sealed timber framed building with cedar cladding. A sedum was used to control run off of rain water, improve thermal insulation and add to the bio-diversity of local plant and animal species.

The project was driven by the very tight funding programme available to the college. Using the insulated factory fitted cassette panels, combined with the use of factory built roof cassettes the timber frame building was erected within 3 weeks to meet the tight programme.

The building received Shropshire Building Excellence Awards for 'Overall Winner' and 'Best Educational Project' in 2013.



WALFORD COLLEGE BARN

Baart Harries Newall was appointed by Walford College to undertake a feasibility study to convert a range of Grade 2 listed barns.

The aim of the project was to convert the existing stables, stores and animal pens into teaching accommodation, student recreation facilities and staff offices.

The stables and barns are set in a U shape around a central courtyard with three inward facing facades of different periods – the building of highest importance being the timber framed range at the rear and north side of the courtyard.

The three phases of building are set at different levels with steps up to the various floors. The proposal was to create a gently sloping courtyard to connect all three floor levels. The courtyard was to be paved with stone cobbles between smoothly paved circulation routes, with a central focal point and social gathering space.



MARY SIDNEY HALL, SHREWSBURY SCHOOL

A new boarding house for Shrewsbury School. The house was formally opened in September 2008 and was Shrewsbury School's first Girls Boarding House.

It is named after Mary Sidney (1561-1621) who was one of the first English women to achieve a major reputation for her poetry.

Designed to house 70 girls, the accommodation includes 24 en-suite rooms and dormitories. In addition there is a house mistress' house, matron's flat and tutor's flat.

Throughout the new building the circulation is designed generously, to allow for the inclusion of a variety of informal social spaces for the girls.



BUILDINGS SCHOOLS FOR THE FUTURE

BHN was involved in the Building Schools for the Future programme with both Telford and Wrekin Borough Council and Worcestershire County Council.

Telford and Wrekin commission consisted of four schemes. Three of the schemes involved complex phased re-modelling existing secondary schools. The fourth involved a proposal for a new secondary school, primary school and skills centre.

Worcester commission consisted of 2 schemes, Wolverley Secondary School which retained part of an original neo-classical building and a new proposal for King Charles I Secondary School.

All of the schemes were developed to sketch schemes status with Wolverley to outline planning stage. BHN were involved with intensive consultation throughout the process. The schemes were submitted as part of the Outline Business Case for the BSF through intensive consultation.



Charlton School Proposal (above)



Lord Silkin Sketch Proposal



Wolverley Secondary School Proposal

St BARTHOLOMEW'S PRIMARY SCHOOL

An extension to an existing primary school comprising 2 reception classes, a nursery, a childrens centre and a new school kitchen.

The project involved grouping together all early years activities to provide an integrated facility for children, parents and teachers. The client is Worcestershire County Council and the contract value is £1.8m.



DARLASTON SURE START

A new Sure Start Children's Centre for Walsall Metropolitan Borough Council.

Baart Harries Newall was appointed as architects in Spring 2004 to carry out a feasibility study, and later to design a project to convert and extend Ilmington House, an existing Edwardian villa, to provide a new children's centre.

The new building forms an L shaped footprint with the existing house, enclosing a secure play area to the south, with canopied French windows opening out from the crèche spaces and café.

The site sits upon the former Bull Piece colliery, and is traversed by numerous mining roadways at a depth of 17m. The project included extensive ground remediation, and grout filling of the mining galleries. Two shafts were also filled and capped.

The project includes 36 child-care spaces, a community cafe, and a wide range of family and parent facilities such as health rooms, meeting and training rooms.

The project sits within a conservation area, and the design philosophy has been to faithfully restore the highly decorated Edwardian villa, and to contrast this with a modern extension, clad in timber and glass.



UPPER ARLEY PRIMARY SCHOOL

An extension to an existing Victorian Primary School. The new building counterpoints the old with its simple form and white rendered walls.

It has a green sedum roof and two cones which bring light and air into the centre of the building.

Classrooms open up onto a small veranda providing a covered external play area on a highly restricted site.



SCHOOL OF ART AND DESIGN - UWIC CARDIFF – FEASIBILITY STUDY

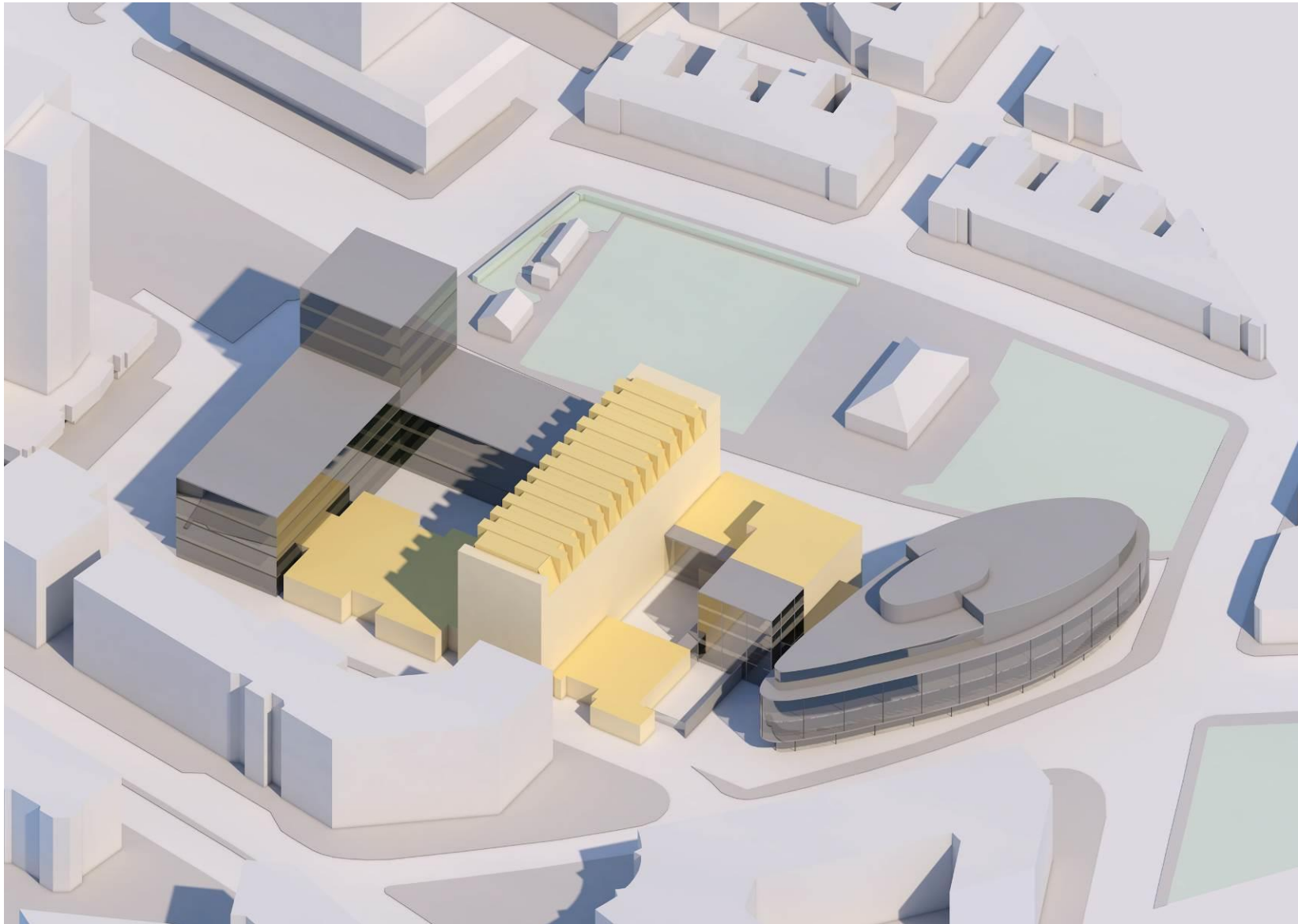
Baart Harries Newall were appointed by the University of Wales Institute Cardiff, to produce a feasibility study to identify options for the development of the Howard Gardens Campus, as a fitting home for the Cardiff School of Art and Design.

The study addressed the ambition to bring together Art and Design courses, currently located on two different campuses, into an expanded School of Art and Design on the Howard Gardens site.

The study examined how such an expansion could take place as a phased development without disrupting the School's ongoing programmes.

The strategy adopted sought to preserve existing buildings at the core of the site and develop new buildings toward the site boundaries – in areas currently occupied by buildings of poor quality or temporary accommodation.

As well as increasing the capacity of the site the selected strategy offered benefits in terms of improved visual appearance of the campus, a more appropriate entrance location, rationalised internal circulation, new learning and social facilities including a new library, lecture theatre and canteen.



KINGSLEY COLLEGE, SIXTH FORM CENTRE

The new sixth form centre forms part of a wider reorganisation of Kingsley College Campus undertaken by BHN in 2007 – 2008.

The single storey building occupies an irregular site to the south of the campus. The primary rooms within the new building – common room, private study and resource suite area are orientated towards the east – overlooking an existing pond and the expansive college grounds.

A central circulation space within the sixth form centre accommodates locker facilities for the students. This central space has natural light and ventilation provided through a raised section of the roof.



WALFORD & NORTH SHROPSHIRE COLLEGE

A £2.2m development comprising, animal care, horticulture and general teaching accommodation, for a tertiary education college specialising in land-based studies.

The college brief was to produce a building that explores a number of green technologies, and to use these as a teaching and demonstration aid in the area of rural diversification.

The building is primarily constructed from materials scoring A in the BRE Green Guide, and is partially clad in oak grown on the college estate. Additionally the building is insulated to a standard 25% higher than the current building regulations.

Energy conservation systems include photovoltaic panels, wind turbine generator, ground source heat pump and biomass boiler. The college intend to produce their own fuel by growing short rotation willow coppice and Miscanthus crops, and with the waste products of their forestry courses. Read-out displays provide real-time demonstration of energy production and use.

Canopies and solar shading prevent excessive summer heat build up, and the classrooms are naturally ventilated. A rainwater balancing pond provides a new wildlife habitat.



CAFE, CONCORD COLLEGE

The new pavilion café at Concord College is set in an eighteenth century walled garden. The height of the pavilion is kept low to allow the building to sit comfortably into its historic context.

The building is constructed with a steel frame with glazed and masonry walls. The roof extends past the enclosed café and the steel support structure. A continuous band of glazing between the masonry walls and the underside of the roof increases the illusion of a floating roof.

The cafe is equipped with stainless steel fitted kitchen units. Residential students can prepare their own food within the fully equipped kitchen area.

The building is on a raised concrete plinth forming a terrace for dining out in the summer. Two large sections of the glazed wall can be opened up during the summer to allow easy access between the inside and the outside, transforming the building into a roof with columns.



BROADWAY CHILDREN'S CENTRE

A new Children's Centre in the Cotswold village of Broadway. Located on the site of Broadway First School. The scheme comprises a Multi-use Space, a Consulting Room, Offices and a large pre-school Childrens Room.

The children's room is a generous space with high ceilings, high level windows to bring in natural light and doors opening out onto a dedicated outdoor play space.



BIRCHILLS PRIMARY SCHOOL, WALSALL

An existing 1.5 form entry primary school extended and remodelled to create a new 2 form entry school for Walsall Metropolitan Borough Council

The existing Key Stage 2 block has been demolished and replaced with a new wing containing 8 classrooms, IT/Library suite, Technology classroom and quiet rooms.

A new link corridor from the existing school to the new wing creates level access to all teaching areas, and a new lift and staircase provides disabled access to all new and existing levels.

The existing school has been provided with a new roof, and complete internal refit and refurbishment, to bring it up to a modern standard.

The project has achieved a BREEAM rating of Very Good.



CENTRE FOR PERFORMING ARTS, CONCORD COLLEGE

A new performing arts centre designed for Concord College, Acton Burnell, by Baart Harries Newall.

The new facility, set in the delightful grounds of an eighteenth century hall, was completed in November 2000. It provides a 300 seat auditorium space, an orchestra room, a suite of seven practice rooms and five classrooms.

Musical and dramatic productions are regularly staged within the new auditorium space by both the college students and professional performers.



BARCROFT PRIMARY SCHOOL - WALSALL

A new £6.6m two form entry primary school for Walsall Metropolitan Borough

The school was formerly located on two adjacent sites at Barcroft (infants) and Albion Road (Juniors, in Willenhall). The project brought the schools together into a single building on the Barcroft site, whilst the Albion Road site became the school playing fields and staff car park.

The site required extensive remediation of historic mine workings and an innovative vibro piled raft foundation to overcome ground conditions caused by the working of three shallow depth coal seams.

The new school is organised around a central atrium space which incorporates learning pods and resource areas.

The 14 classrooms are all entered from the atrium, with the younger year groups on the ground floor, and the two eldest year groups on the upper floor.

The scheme has achieved BREEAM Excellent at the design stage assessment.



NEW TEACHING BLOCK, TELFORD COLLEGE OF ARTS AND TECHNOLOGY

A new teaching Block for Telford College of Arts and Technology at the college's Haybridge Road campus.

The new building has 25 classrooms, including areas for students with special needs, fully fitted IT suites and specialist craft areas.

The building is extensively equipped for IT use featuring smartboards and data projectors in all teaching space. All PCs are serviced by perimeter data trunking with server rooms on each floor. In total the teaching block contains 19km of data cable.

In addition the building contains a series of staff suites and individual offices.

The new building was designed to act as a new 'gateway' to the college campus. As part of the project a new enclosed link was provided connecting the colleges existing buildings together and providing full accessibility to all areas of the college.



HEAVERS FARM PRIMARY SCHOOL

A new two form entry primary school in south London.

Winner of a 1998 Civic Trust Award. Described by the awarding committee as 'a welcoming and innovative building that makes a real contribution to primary school design and is clearly enjoyed by pupils and staff'.

