

Daniel Harvey



Project Dove

Coffee Production Facilities, Tutbury UK

Client:	Nestlé UK
Project:	New Coffee production facilities & heritage trail
Location:	Tutbury, UK
Value:	£200M+
Status:	Under construction

Project Details

The project provides 30,000m² Freeze Dried Coffee manufacturing facility adjacent to the Nestlé UK existing coffee manufacturing factory. The buildings were strongly influenced by the process requirements and vary from single storey to approximately 36m in height with little consistency between the different building elements in terms of scale, shape and size.

Design Approach

It was important to develop a series of design principles that helped to physically connect the separate buildings and create an overall rhythm that runs throughout the entire development. The proposals do not attempt to camouflage the scheme into the landscape but instead strive to lessen the visual impact on the natural surroundings with quality and 'honest' design.

Gold mesh has been used on the taller buildings and with its reflective and metallic qualities would respond to the surrounding landscape by not remaining static or heavy but changing during the day and under different weather conditions. The transparent angled properties of mesh would give the very tops of the buildings a distinct quality of 'lightness' that

would appear to 'fade' into the sky.

The red cladding panels run horizontally in fixed modules with a continuous horizontal edge details and curved corners to help emphasise its free flowing 'wrapping ribbon' like qualities. The windows would follow the same module size as the cladding panels and can be placed anywhere within this 'red zone' where required. This would create a seemingly random yet interesting arrangement of punctuated deep-set windows and form a major part of the horizontal architectural language.

A landscape 'zone' is created that runs around the perimeter of the site following the bridle path. This adds another elemental layer in the foreground closest to the perimeter where the public can view the development clearest. The creation of carefully placed undulating landscaped 'mounds' of varying heights and sizes softens the most close up views into the site from the boundary. Planted with native meadow grasses and wild flowers they will create a sweeping and flowing natural barrier between the public zone of the bridle path and the factory area within.



Main Picture
View from new
heritage trail to the
North

Above Top
View from NW corner
site boundary

Above Bottom
Aerial View

Right
View from Railway



The Joy* Project

Huddersfield University Sports & Leisure Facilities

Client:	Huddersfield University
Project:	Combined University Sports and Leisure Facilities
Location:	Huddersfield, UK
Value:	£13M+
Sustainability:	BREEAM Excellent rating forecast

Project Brief

The creation of a new Student Learning and Leisure Centre at the heart of the Queensgate Campus to provide an inspiring Learning and Leisure hub for students, staff and visitors. A landmark development that integrates with the existing, award winning and recently remodelled DarntonEGS Library and Central Computing facility.

Design Description

The striking concept comprising of 2 pure 'box' forms positioned on top of each other. The lower box providing a vibrant new sports facilities and the upper box the student facilities and the latest innovations in teaching and learning. The articulation of the forms remain pure and not complicated with ornate cladding materials or detailing. The architecture will be the purity of the forms and their unusual geometric relationship together.

The two forms serve different functions with different geometry and orientation and are united together with an inspiring vertical

atrium space and the central spine and social hub servicing all areas of Joy*.

The purpose built Sports Centre incorporates a six court sports hall, fitness centre, studio spaces, squash courts, climbing wall, changing facilities and other multi-functional rooms. These facilities are complemented by an integral purpose built Student Centre providing a home for the Students Union, Student Support, Central Catering and other associated services.

Wider University Master-Plan

JOY* not only presented a brilliant development opportunity but the potential to create exciting new external spaces and to tackle solve some of the universities wider aspirations and targets.

Careful master-planning and strategic demolition of certain buildings made it possible to extend the current University Plaza to create a boulevard style space with a series of exciting new buildings either side.



Main Picture
View from Canal Cut Court
showing central atrium
and climbing wall

Above Top
View over canal showing
fitness suite

Above Bottom
Vertical Atrium and
climbing wall

Right
Sports hall





The 'Boomerang' School

Bradford Academy Primary Provision

Client:	Bradford Academy
Project:	New primary provision to existing academy
Location:	Bradford, UK
Value:	£3.8M
Sustainability:	BREEAM Excellent rating forecast, green walls, biodiversity areas.

Project Brief

The design of an entirely new primary provision to enhance the sense of 'all-throughness' and synergy with existing academy.

Design Description

The iconic form of the boomerang plan connects to the existing building at the centre of the on upper ground level where it is nearest to the existing school to create a new 'spine link'. This successfully connects the new and existing schools together with minimum disruption to the existing school layout. The boomerang shape angles away from the exiting building to create 2 new distinct spaces, one internal and the other external.

New Central Atrium HUB

A vibrant new internal central atrium space is created providing a welcoming entrance area and heart to the school with open access to the new sports halls to create a large flexible multi-use space and central HUB.

External Amphitheatre

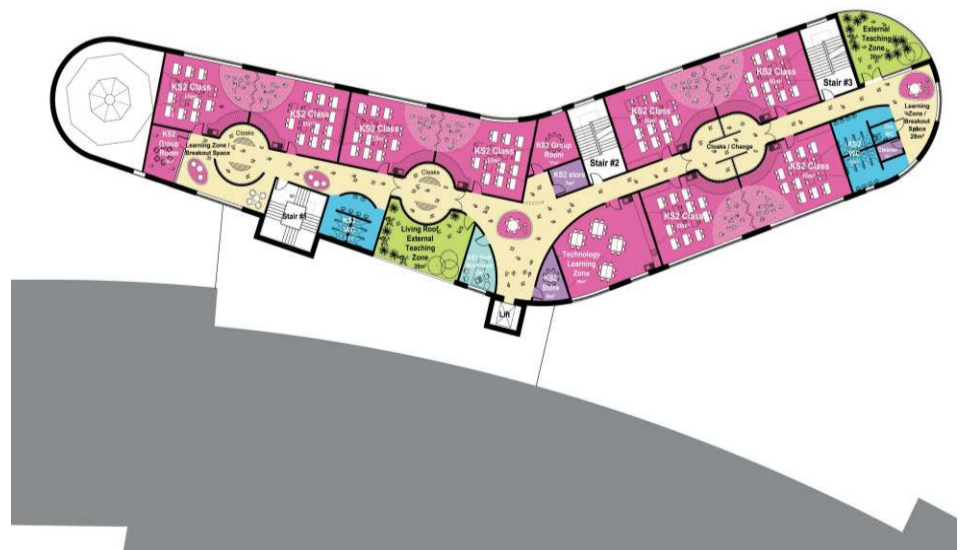
The boomerang form creates a vibrant external teaching space or amphitheatre between the existing academy which can be used for school assemblies, school performances or external teaching.

Classrooms

Nursery and Reception classrooms are located on the lower ground level so the youngest pupils have level access and are near the main entrance. The KS1 pupils are on the upper ground level and have direct access to external the upper level external play area. The KS2 pupils have the entire first floor plan around a central technology HUB.

External teaching areas

The placement of the Boomerang defines and shapes the external landscape to create a number of exciting new external areas for teaching, learning, socialising, playing and for sports activities.



Main Picture
View from approach

Above Top
Aerial view

Above Bottom
First floor plan



Sports Club House

York Hockey Club and Tomas Walker Tennis Academy

Client: University of York, York Hockey Club & Thomas Walker Tennis Academy

Project: New club house and sports provision

Location: York, UK

Approx. Value: £4M

Brief

New combined Club House for the City of York Hockey Club and Tomas Walker Tennis Academy as part of the expanding University of York Sports Village. Existing facilities expanded to provide a new dance studio, lower level gym, sports shop, therapy rooms and viewing gallery into the existing sports hall.

Design Description

The iconic zigzag roof creates a sheltered overhang for the external spectator galleries that wrap around the building and overlook the main pitches and tennis courts. The visually stunning new structure unites the existing sports buildings together and will be the most visible building when entering the sports village campus. It will be a new landmark for The University of York and demonstrate its future commitment towards the sport and leisure facilities.

Club House Bar

A generous Club House and Bar is created upon the existing roof area. A central bar area divides the space into separate areas so it can

be used for different functions with a 'sports bar' area for live sport, the dining area and general bar area.

Viewing Windows

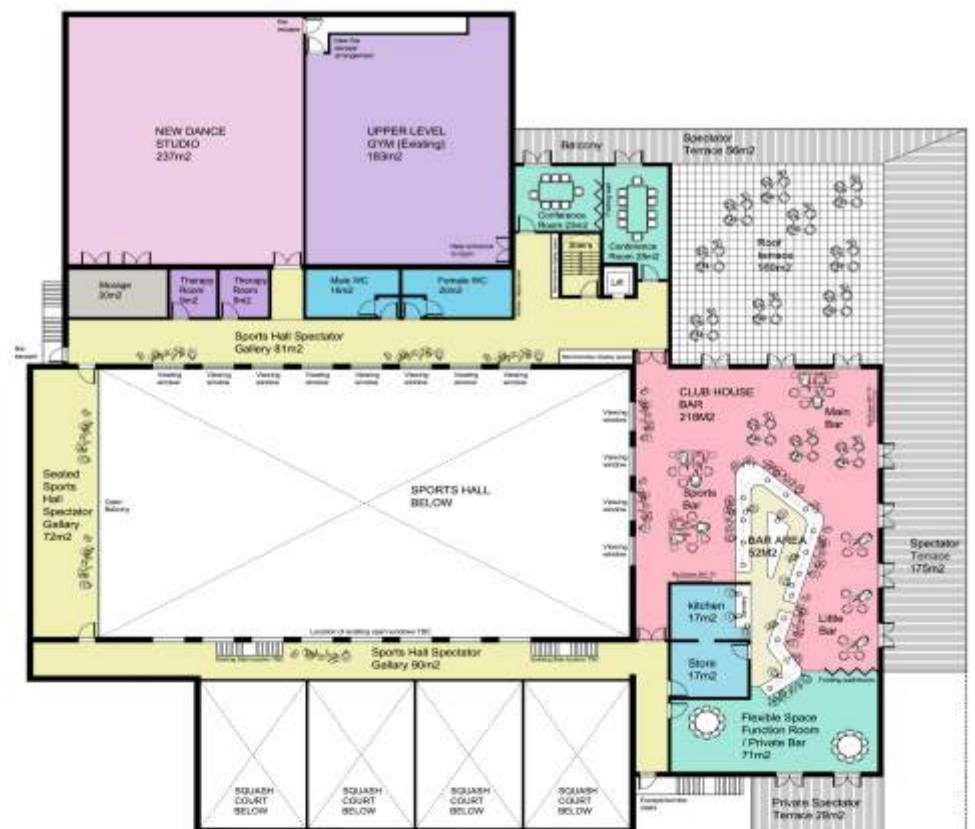
New stunning viewing windows are punched through the sports hall wall at high level to allow spectator viewing from the bar area.

Roof Terrace

A large roof terrace creates a large social external space that enables the club house to open out to extend its capacity. The roof overhang provides cover and protection around the perimeter of the building to allow the space to be used throughout the year.

Spectator Terrace and Canopy

A generous spectator terrace runs along all 3 sides and provides a sheltered walkway at ground level and provides spectacular views over the sports fields and tennis courts.



Main Picture
View from below canopy

Above Top
Elevation view across sports field

Above Bottom
Floor Plans

Masterplan/International



India Masterplan

Bhugaon Masterplan, India

Client:	Kohinoor Group
Project:	Bhugaon Masterplan
Location:	Pune, India
Site Area:	114 Acres
Approx. value:	£unknown
Sustainability:	ECO systems (details to be added)

Brief

We were approached by Kohinoor Group, a large development company based in Pune, India. They required an international approach for a large master plan concept for a gated community on a prestigious 114 acre site in suburban India.

Masterplan setting out principles

The masterplan is set out with a double radial configuration with large central open space. A hierarchy of buildings is created with the taller high rise residential towers placed at the back of the site and set into the hills with the low rise buildings such as the bungalows and villas to the front part of the site.

The setting out of the Masterplan divides the site into a number of distinct zones and quarters. These include, Temple Square, Market Square, Sports Quarter and Central Park, Club house & Health and Wellbeing Quarter, Entrance Square, Cultural Quarter, Commercial Quarter, Education Quarter and the Residential Zones

The layout of the roads creates a central area

used as a multi-use community open space ideal for sports activity, cricket or community activity.

Design

Iconic community buildings such as a temple and market square are placed in the central plazas to create focal points for the vistas along the arterial roads leading out to the residential zones.

A full size cricket ground is located centrally to the scheme. A cricket pavilion is placed in this area to define both the bottom edge of the sports square and the edge of the cricket field providing excellent views for spectators over the cricket grounds and over the valley towards the distant lake.

The commercial zone is placed near the entrance to create an impressive tree lined boulevard and 'gateway' into the development facing the temple. This area would contain all the major amenities for the site including library, school, hospital, supermarket, retail, commercial businesses and other public amenity buildings.



Main Picture
Aerial view showing Temple Square in the foreground

Above Top
Aerial view showing Market Square in the foreground

Above Below
Sketch masterplan

Zero Carbon and Sustainable Design



Zero Carbon Store

M&S Zero Carbon Store

Client:	Marks and Spencer
Project:	Achieving a zero carbon store
Timescale:	15 years from now
Sustainability:	Zero embodied carbon

Brief

Working with Deloitte dcarbon8 for the Carbon Trust and M&S we developed proposals for a future zero embodied carbon store. We developed ideas for how stores could be designed and constructed to achieve low or zero embodied carbon and to identify alternative low carbon materials and construction specifications.

Design Approach

To achieve a true and fully realised zero carbon store of the future we developed new innovations that combined radical new design solutions with the next generation construction materials and technologies.

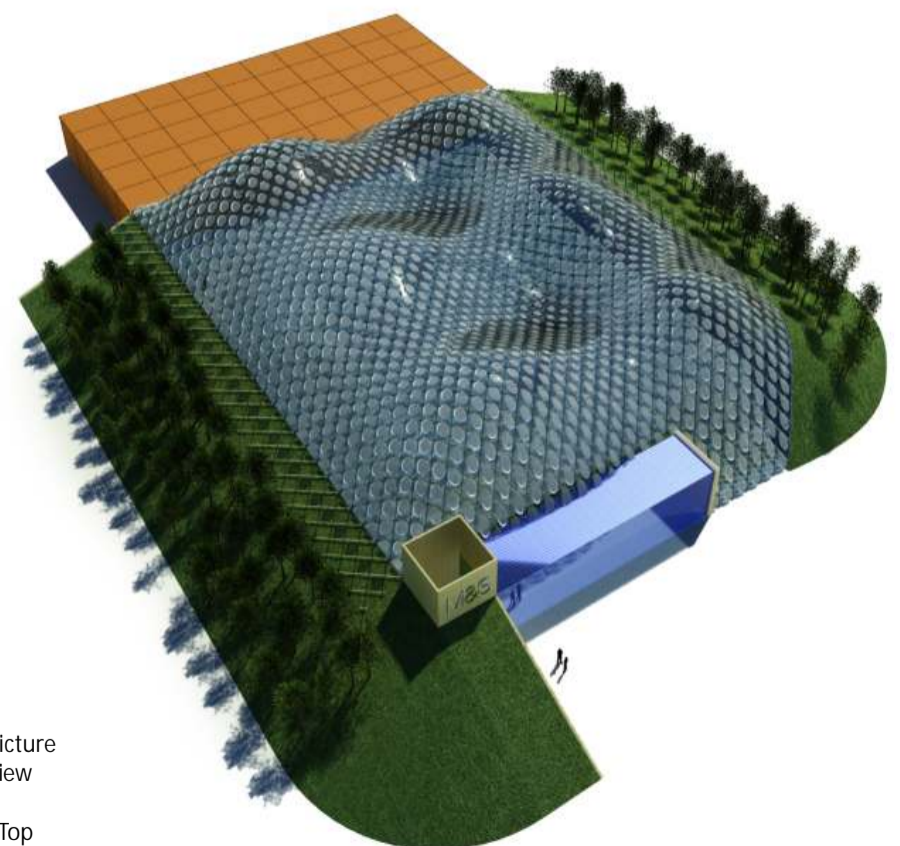
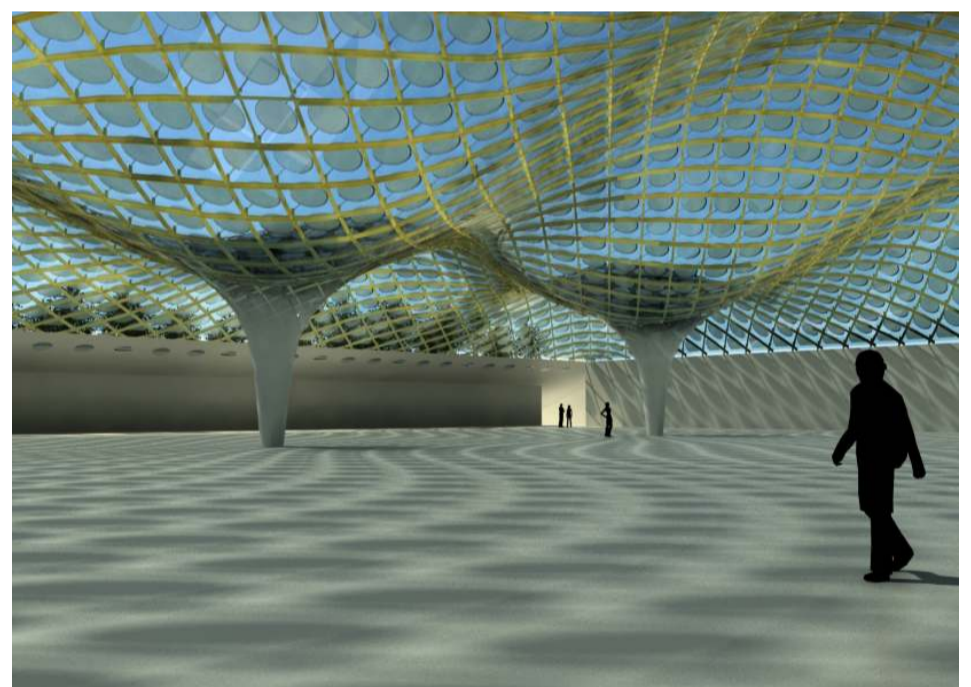
With our most innovative design we divided the building into 10 key components and developed these separately in detail which maximised the overall carbon reduction of the design.

Design

The sweeping curves of the transparent roof appear to project upwards from the green

side banks of wild flowers and trees. Timber forms the main structure layered on top with a number of advanced transparent 'super fabrics' to provide natural light, insulation, weather proofing and to allow the building to breath. Projecting light reacting 'solar lilies' with a combined function to provide solar shading and to harness the sun's energy to be reused elsewhere in the building creating a 3-dimensional living and moving building that will change and responds to surrounding weather conditions and the environment.

Developments in new and exciting sustainable materials allow for a highly innovative and environmentally responsive design solution that 'performs' as much as it is iconic. The stunning architectural form is created by simple timber lattice construction of flat timber strips that follows complex double parabolic curves to achieve exceptionally large spans providing a fully flexible space below.



Main Picture
Night view

Above Top
Interior view

Above Bottom
Aerial view



University Galleries

University Galleries

Client:	Huddersfield University
Project:	University Galleries and refurbishment of existing Art department
Location:	Huddersfield, UK
Value:	£2M
Sustainability:	TBC

Brief

To provide the university with multi-use central gallery space within the existing art department overlooking the main University Plaza. The project also included the reconfiguration and complete modernisation of the Art and Architecture building.

Concept

The simple slick transparent glass cubes have the appearance of being 'slotted' into the façade and rotated slightly to address the University Plaza. The cubes increase in floor area and height from the small corner gallery at 60m² and 3.5m height to the large gallery at 180m² and 4.5m height near the main university entrance. Each cube is rotated 5 degrees more than the previous cube.

New Entrance Area

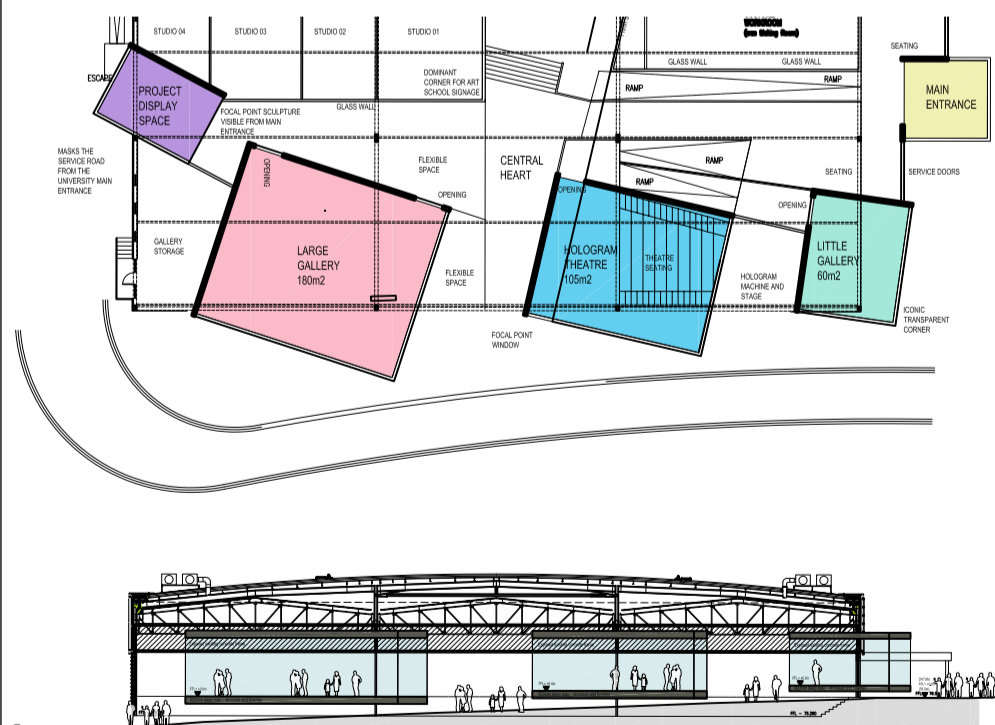
A central main entrance is created by enlarging the existing disused entrance area to the top left. This provides a large entrance area for both the Art School and the University Galleries.

Flexible internal layout

The gallery space is designed to provide maximum flexibility. The glass 'pods' can be used as individual gallery spaces with the 'in-between' spaces sub divided into small separate multi use spaces by moving partitions that can be used as additional gallery space, meeting space or general breakout space. Alternatively the spaces can all be opened up and used as one large space for functions such as graduations, summer shows & department exhibitions.

Art School

The creation of a 'heart' in the centre of the school so the studio spaces can be arranged around the perimeter and accessed from the central circulation loop. It was important that the gallery and the school can function independently as well as working together as one and been seen to be connected together. This will give the university a fantastic opportunity to show guests and visitors the students at work and the final displayed work under one roof.



Main Picture
Approach route towards
University Plaza

Above Top
Elevation view across
University Plaza

Above Bottom
Plans and Elevation



The Smart House

Modular Housing Switzerland

Client:	Private Swiss client/Darntonegs
Project:	Modular ECO Housing
Location:	Switzerland
Approx. value:	TBC
Sustainability:	Target Code for Sustainable Homes Level 6

Brief

To develop high end modular housing with interchangeable components and parts so the client can have a choice with the design and future additions or adaptations can easily be made during the lifetime the building.

Design

Set on a regular grid either side of a central corridor with a timber 'quick-fix' frame of prefabricated inter-connectable parts and bolted to foundations to provide a rigid but demountable structure. Fully finished prefabricated off-site room modules are slotted into and supported by this frame and fixed and sealed together. Wet areas such as bathrooms and kitchens are stacked above each other.

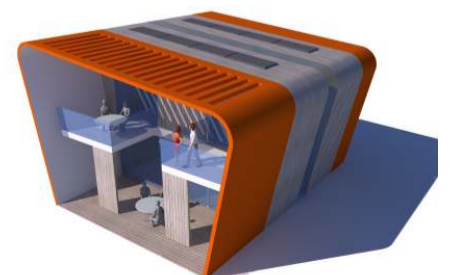
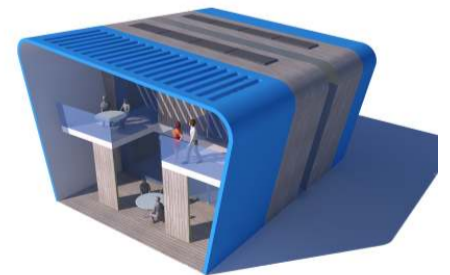
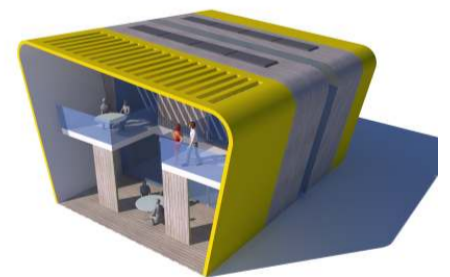
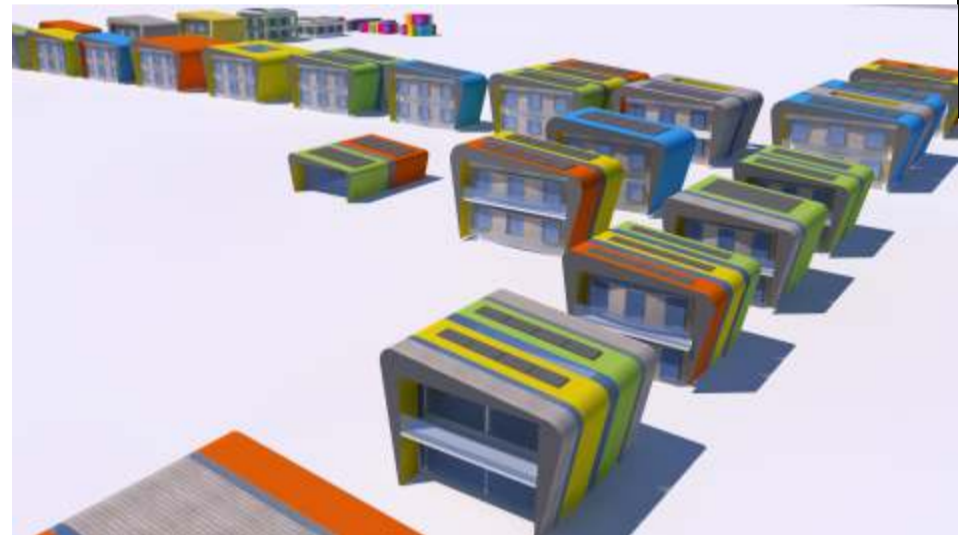
An outer 'super insulation skin' wraps around the entire house creating protection giving the house the iconic curved form with choice of colour and material. The curved form extends to provide a roof overhangs creating semi sheltered external space for the terrace and balconies. The living, dining and kitchen space open out ground level with the bedrooms

opening out onto individual balcony spaces at the upper level. A transparent 'band' wraps around the middle of the house between the super skin to provide natural light into the heart of the house.

Additions and modification can be made during the lifetime of the building to accommodate the changing needs and requirements of the residents for example an additional 'section' to increase the number of bedrooms, to increase the size of the living space or add a workspace or studio.

Flexible internal spaces allows the arrangement of rooms to be adapted for example the living and dining space can be combined with the kitchen to provide 1 large space that opens out onto the external terrace of it can be separated into 3 individual spaces.

Renewable energy and sustainability options include varying degrees of roof mounted solar panels, rainwater harvesting, green roof 'super-skin' option, sustainable construction materials and natural light and ventilation.



Main Picture
View showing ground level terrace and upper level balconies

Above Top
Concept image showing different unit types

Above Bottom
Choice colour and materials



Teaching Acedemy

Speculative Teaching Academy in York

Client: -
 Project: New teaching academy on a prominent inner city site in York
 Location: York, UK
 Approx. value: approx. £20M
 Sustainability: TBC

Brief

Currently the academy operates from 2 separate sites in the centre of York. The brief was to develop design proposals for a new academy on a single site to accommodate all pupils and to unite the school in one location.

The site

The inner city site is surrounded on 3 sides by busy roads. By pulling the building line back to create wide tree lined pavements creates a safe 'island' for the pupils once they have arrived.

The concept

Due to the confined nature of the site an inward facing building was the most appropriate for this location. A central large multi-use atrium space in the heart of the academy creates the building's 'palm' with the building 'fingers' radiating around. The perimeter finger buildings will form 'class room clusters', sports hall, assembly hall, teaching facilities etc. A number of stairs and lift 'hubs' link to a series of walkways on the upper levels that surround and overlook the central atrium space provides access to all areas of the building.

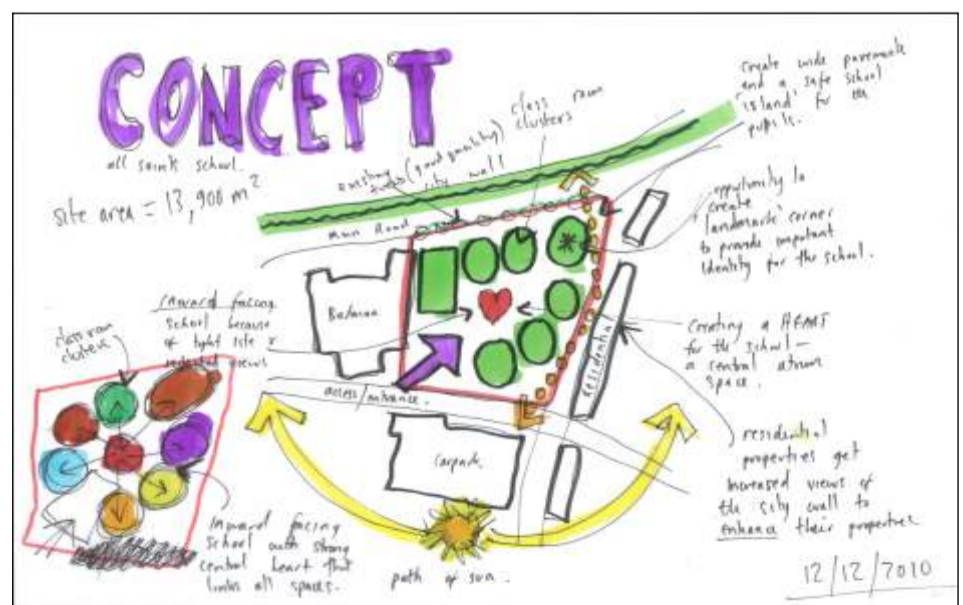
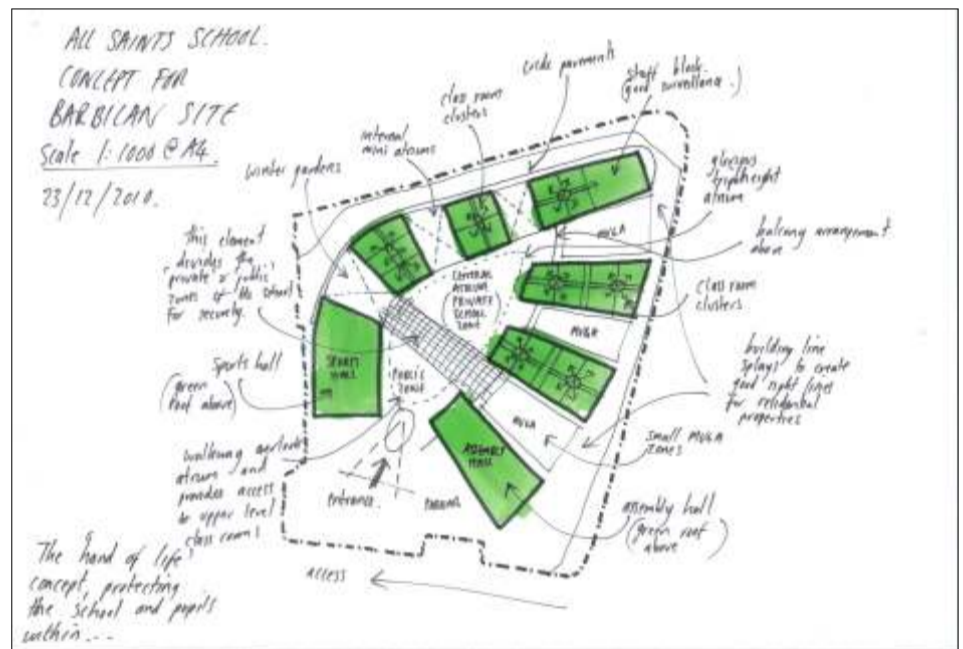
The elevations face onto busy streets and are composed of the individual building 'fingers' connected together by internal glazed 'mini-atriums'. This protects the internal environment from the harsh external surroundings by providing smaller pockets of internal space for the class rooms to look upon and to be used as informal teaching space.

Winter Gardens

Sensory winter garden spaces provide stimulating internal green spaces. Cleverly designed 'outdoor-indoor' areas provide the experience of outdoor spaces whilst receiving the physical protection from the building. This approach is linked with overall strategy to increase biodiversity in the area and provides a valuable physical link between the pupils and the natural environment.

Creating a 'sense of place'

The academy creates a friendly and welcoming 'sense of place' so a feeling of pride can develop in the individuals who will care greatly for their school and feel a custodial ownership towards it in a safe, secure, friendly and approachable environment.



Main Picture
Aerial view

Above Top
Sketch plan

Above Bottom
View over canal showing fitness suite

Sustainable Store Design



M&S The Green Gyle

Sustainable initiatives for an existing store

Client:	M&S
Project:	As part of the renovation to an existing store
Location:	Edinburgh, Scotland, UK
Approx. value:	£1M
Sustainability:	Roof top solar farm, green walls, stack ventilation tower

Brief

Darntonegs were lead architects for the complete refurbishment of this store. As part of this project a additional sum was set aside solely allocated to sustainable initiatives and Darntonegs were asked to develop a number of proposals.

Design

The M&S Kitchen is being relocated to the front of the store as part of the refurbishment plans and we decided to focus on this prominent front corner.

The existing upper-level cladding is over-clad using a sustainable material. Some of the lower level concrete infill panels are removed and replaced with glazing to allow natural light into the kitchen. Doors also allow for the kitchen to spill out into a new exterior café zone. Other lower level panels are clad with timber sources from a sustainable source.

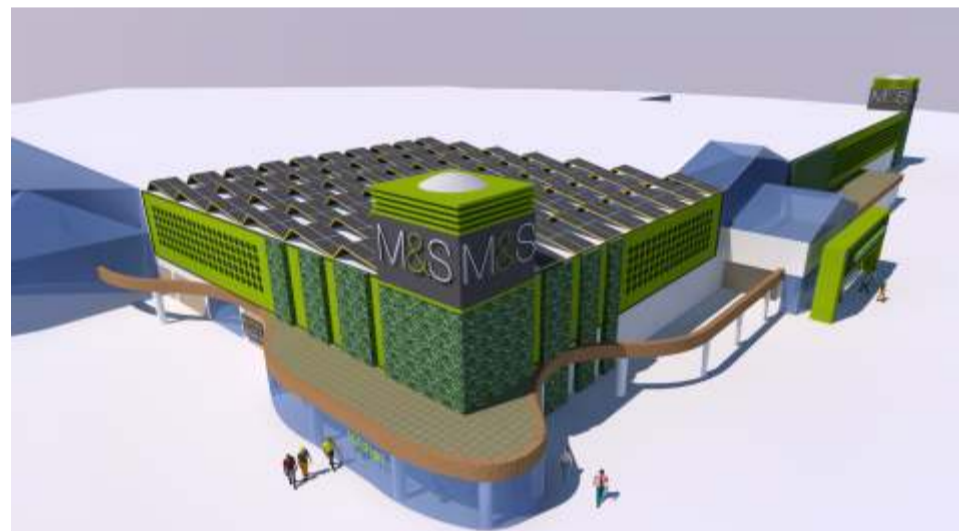
Vertical living wall strips run the full height of the store breaking up the dated horizontal lines and giving it more vertical emphasis. The trolley park roofs are also planted with

sedum. This softens the buildings appearance whilst increasing the biodiversity and green impact of the store.

The verticality is strengthened with the prominent corner tower which serves the dual function of providing natural ventilation to the kitchen below and providing an iconic corner to strengthen the store identity. New signage is placed on this tower at high level and on both sides of the corner in large format.

A solar farm is proposed at roof level to generate enough energy to completely power the M&S kitchen below. If successful then there is provision to extend the farm to power other areas of the store.

New rotating doors are proposed for the main entrance which will decrease air leakage and increase pedestrian circulation and flow patterns. The horticultural area is clad in a super insulation material with coloured panels and glazing to allow natural light into this space.

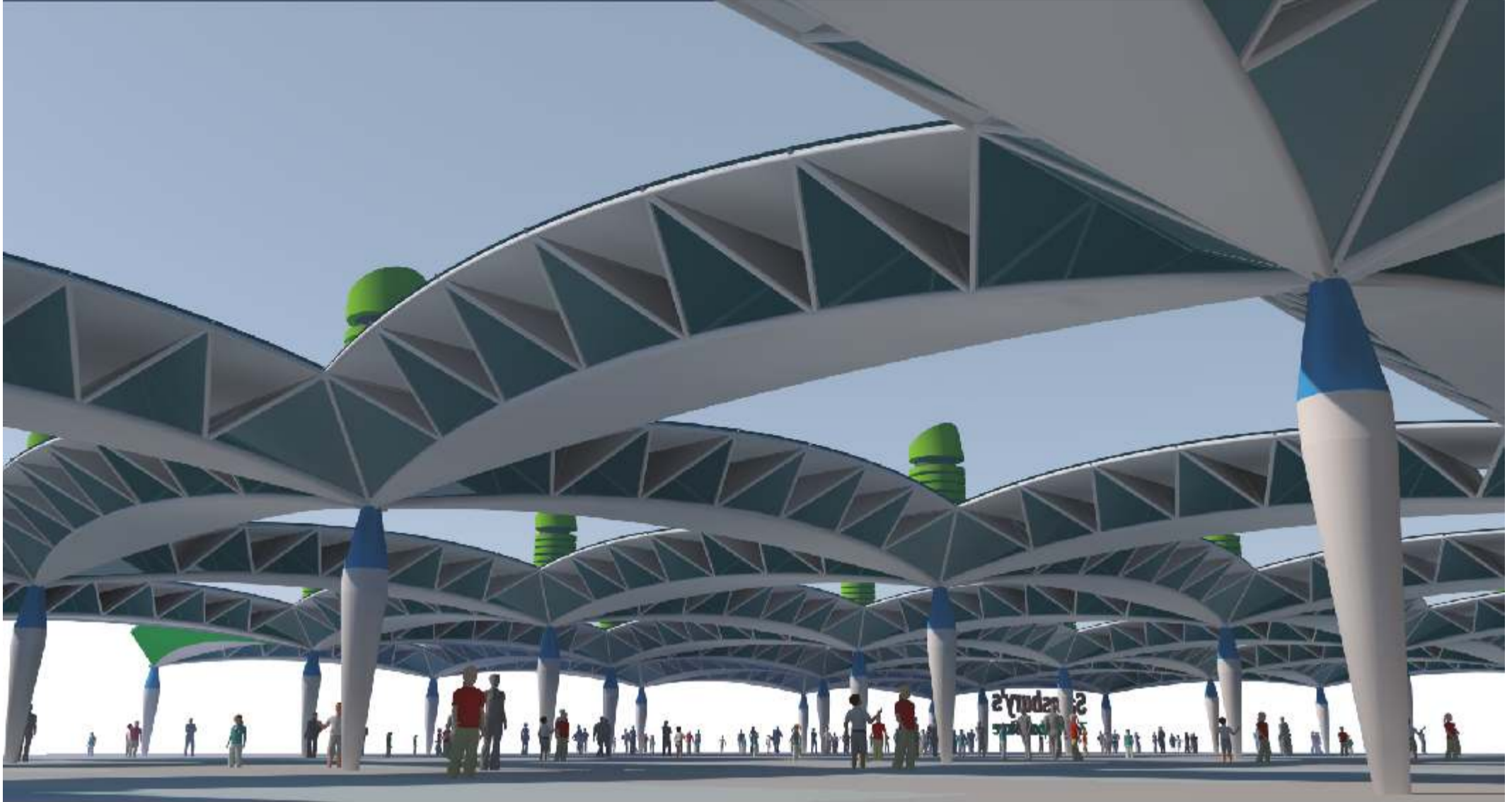


Main Picture
Corner view showing green walls, ventilation tower and roof top solar farm

Above Top
Option variation

Above Bottom
Option variation showing roof top solar farm

Modular Store Design



Modular Store

Speculative Modular ECO Store

Client:	Confidential
Project:	To develop a modular system for new stores
Location:	Across UK
Sustainability:	Prefabricated offsite modular construction, natural ventilation, roof top solar panels

Brief

To develop a modular system that could be used to construct large retail stores or warehouses to increase speed of construction time and reduce construction waste.

Design

A modular system set out on a 15m grid similar to current supermarket grid layouts. Each main component consists of a quarter column either side of a 15m truss and floor section to form a rigid module that can be delivered to site whole. On site the main component is fixed to another identical component using the standard truss and floor sections to form a free standing 15mx15m bay and this is fixed onto the grid of foundations. Each bay fits to the next bay to create the overall structure with each quarter column fixing to 3 other to create a whole column.

Eco Service strategy

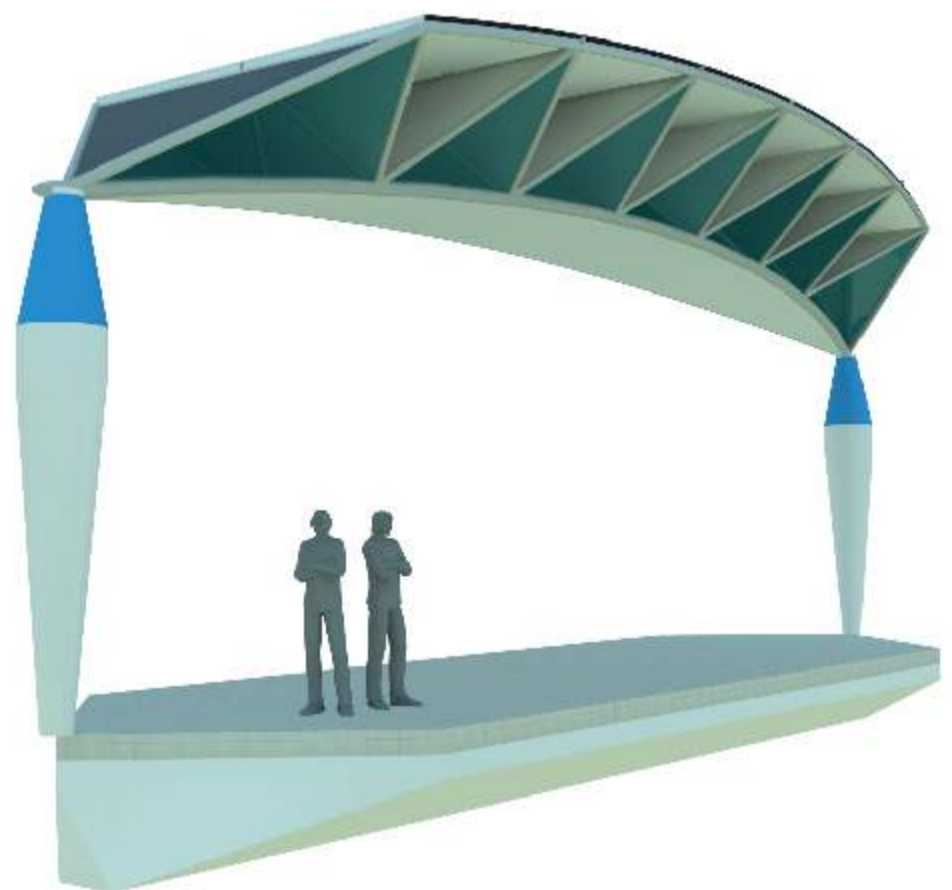
Wind catchers are located on the columns to assist natural ventilation that is transferred down the columns to form a displacement ventilation system from the columns. The columns are also used to transfer renewable energy from the solar panels on the roof and to capture the rain water to be stored in a tank below the store. Service trenches are within the floor section components for the distribution of power and data cables.

Main Picture
Modular store internal image

Right Top
Timber variation

Right Bottom
Individual prefabricated modular component

Left Top
Front elevation



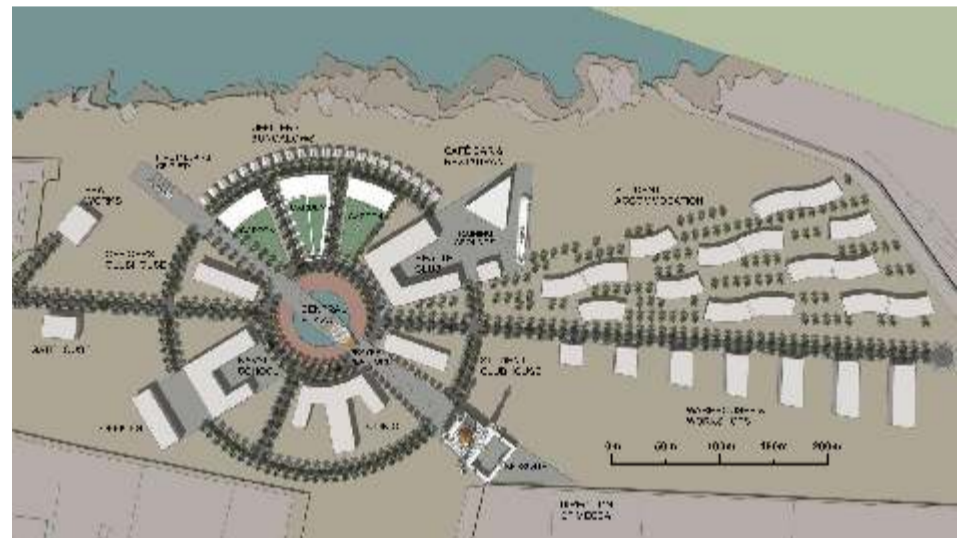
International Navel Base Design



Tripoli Navel Base

Tripoli Navel Base, Libya

Client: Libya Navy
 Project: To develop a concept for a new navel base on the existing navel base site
 Location: Tripoli, Libya
 Status: To present to client in Libya



Design Proposals

The masterplan proposals create a large central space with all areas of the base radiating around with a road structure defining the overall layout. The inner ring road defines the central park with secondary roads radiating out from this inner ring and connecting to an outer ring road. The buildings fit in between these two roads.

Mecca is orientated across the site (approximately 110 degrees). The axis has been used to create a strong feature that runs diagonally across the site with the 5 pillars of piety as a strong feature at the top and seen when entering the site. In Islam 5 is a sacred number. Muslims pray five times a day and there are five pillars of piety.

A hard landscaped zone runs along the opposite diagonal axis run through the site to create a zone for Naval school below facing onto the central area. The upper zone a main plaza is created that faces out to sea with the healthclub and pool adjacent to the central space and a triangular feature building looking out towards the sea that contains the restaurant and bar. The plaza provides a hard surfaces training ground.

The officers bungalows are located at the top to maximise the views out to sea. Two different types are proposed. Single family bungalows are arrayed around the top edge perimeter and combined blocks that contain a variety of accommodation types.

The medical centre and the two club houses are located in the gaps between these elements. The curved student accommodation blocks are located to the east of the site at the top to maximise sea views.

Main Picture
Sketch aerial view

Right Top
Masterplan image

Right Bottom
View onto central plaza

Left Top
View across central plaza



Huddersfield New College



ENTRANCE WORKS

Huddersfield New College, Huddersfield

Client: Huddersfield New College
 Project: New Iconic Entrance to existing college
 Location: Huddersfield
 Status: Complete

Design Description

The main entrance to the college was a relatively nondescript arrangement of structures lacking any distinctive features that help identify is the main entry point. The coloured curved wall is obscured from view when approaching the college. The entrance canopy and doors look dated and uninspiring for visitors and students.

The proposals extend the existing line of the curved wall to create a larger entrance area and external entrance canopy supported by columns. Use coloured cladding panels that follow the colleges colour branding and signage to create a strong and visible feature to clearly identify the main entrance when approaching the college.

Currently there is no lobby when entering the building therefore the reception area is cold and drafty and making it very uncomfortable for both the receptionists and users. The proposals for the entrance area allows for a generous draft lobby to be created with 2 sets of doors at 75 degrees to each other to

minimise the wind flow through into the building. Integrated glazing within the curved feature wall allows light into this area. Options for roof lights can be considered to increase natural light and add drama when entering the building.

Proposed. The removal of the reception 'island' and reconfiguration of the reception area results in the 'Street' space and the reception area to become one single space. Removing the glass block wall and replacing it with clear glazing will allow uninterrupted views through the building from the main entrance doors to the rear external courtyard. This will completely open up the space and with careful selection of the furniture would maximise flexibility and functionality with areas allocated for seating, informal meeting space, thinking pods, and study space.

The project was successfully delivered in an 8 week construction program.



Main Picture
Main entrance

Top Right
Reception

Middle Right
Street area

Bottom Right
Concept CGI

Above
Green Wall

Nation Oil Headquarters



NOC DEVELOPMENT

New Headquarters development

Client:	National Oil Company, Libya
Project:	Tower and offices
Location:	Benghazi, Libya
Status:	Concept

Design Description

Concept design scheme for Nation Oil Company in Benghazi, Libya for a 1200 Person Office, Large Conference Facility, Hotel, Health Centre, Sky Restaurant, Fire station, Gatehouse, retail units and parking and additional independent office blocks.

The scheme comprised of a main 30 storey tower with a number of smaller towers at

varying heights on a 3-storey figure-of-8 plinth. 2 large atriums are provided at the bases of the tower clusters with retail, restaurants, hotel and office entrances accessed from these spaces. The site is extremely prominent and located in the harbour area of Benghazi and visually prominent from the main access bridge from the mainland.



Nestlé Fawdon



MASTERPLAN

Nestlé Fawdon masterplan works

- Client: Nestlé UK
- Project: Develop a sustainable 'lighthouse' masterplan
- Location: Fawdon, Nescastle-upon-Tyne
- Status: design



Proposals

Fawdon factory is one in three Nestlé factories in the UK that produce confectionary. It has been identified as a 'Lighthouse' factory with the vision to create a sustainable, low carbon manufacturing site and they wish to showcase some of their processing plant and to set new sustainability targets and acting as a blueprint for other sites.

The works include a new gatehouse building with a fully glazed ground level with a slick frameless glazing system and contains the control room and visitor waiting area and pedestrian security management gates. The upper level that contains the visitor experience centre and induction area is largely solid with cladding panels matching the size of the glass panels below. Signage on the front elevation that will be clearly visible from the main approach road. The roof top contains a butterfly meadow fully accessible for visitors and staff.



- Main Picture gatehouse
- middle Right Green Wall
- above innovation centre
- Right Butterfly meadow
- Left Masterplan sketch

