SOMERLEYTON ROAD
Brixton
Client: igloo Regeneration

The £100 million Somerleyton Road regeneration scheme will see more than 300 new homes, a theatre, retail and workspaces across six new buildings and BWB played a key role in helping deliver the successful planning application. We were commissioned to provide a range of multi-disciplinary consultancy services which included addressing the local concerns about parking which were raised during the public consultation. By working closely with the local community, the masterplan architect and landscape architects, we were able to underpin the design and delivery of a people-focussed streetscape that results in a reduced dependence on cars while also meeting parking demand.
Vibrant public spaces are vital for communities to thrive and we understand the importance of placemaking as a catalyst for urban regeneration and sustainable development. Well-designed public squares, parks, transport hubs and streetscapes give neighbourhoods a unique identity, encourage social connection and foster a genuine sense of well-being. Establishing the right conditions for spaces and streets to flourish is the key to developing places in which people want to live, work and enjoy.

BWB’s multi-disciplinary teams work creatively and collaboratively with architects, developers and crucially the local community, providing technical expertise and innovative solutions for placemaking projects nationwide. Our input at the concept stages of masterplanning will not just ensure the client’s vision is deliverable, but can truly add value by identifying fresh opportunities for a site to reach its full potential.

Our input can help avoid problems such as traffic-dominated streets, fear of crime, little-used parks and underperforming development schemes by considering each place in its entirety. Identifying and addressing these issues in the early stages can help speed up the design process and result in both time and cost-savings for our clients.

We can transform constraints into features, ensure the most is made of the site’s available space and come up with design ideas to enhance a project’s sustainability credentials. We understand the intrinsic link between people, movement, development, economics and place to help deliver public spaces that work for both the end-user and our clients.

“Cultures and climates differ all over the world, but people are the same. They’ll gather in public if you give them a good place to do it.”

JAN GEHL

creating spaces for people

ADDING VALUE FOR OUR CLIENTS
TRAFFORD WATERS
Manchester
Client: Peel Investments

High quality public space will be an essential element of Trafford Waters, a proposed £1bn mixed-use development alongside the Trafford Centre and Manchester Ship Canal. The plans from Peel Investments detail the development of 3,000 homes, office space, 2 hotels, primary school and a landscaped public realm that will form a vibrant environment in which residents, employees and visitors can live, work and play.

Peel appointed BWB to carry out Infrastructure masterplanning, an Environmental Impact Assessment and production of the Environmental Statement as part of their planning application. Our focus was to understand the constraints and opportunities to the scheme by contributing on issues such as the integration of transport links, geotechnics, flood risk, ground modelling and drainage. BWB’s Water team worked in collaboration with the landscape architect to design a system of narrow open water features that link to larger storage ponds in order to control surface water drainage while also creating attractive amenity areas for the public.

The planning application was approved by Trafford Council in October 2016.
Core placemaking principles of collaboration and joined-up thinking are echoed in our company structure, with multi-disciplinary delivery teams based in single open-plan offices and all drawing and modelling carried out in-house. This shared working environment enables our consultants and engineers across all the disciplines to work closely and deliver an efficient, fully integrated service to our clients.

Each project we deliver showcases a unique relationship between communities and their built environment, from a village green SUDs system to district-wide regeneration. There are lessons in each case about process, community engagement, partnerships and funding. Together we can build great places and spaces that will revitalise communities for future generations.

“We fully understand that placemakers need to know their audience inside out for their project to succeed.”
GLOUCESTER SERVICES
M5 between J11a & J12

Client: Westmorland Ltd

BWB has played an award-winning role in the £40 million dual-sided Gloucester Services development which sets new standards for motorway service provision. It is the first motorway services in the UK to achieve a BREEAM “Excellent” rating for sustainable building design and features a state-of-the-art “green roof” which blends in with the rural landscape.

BWB was first appointed in 2012 as the civil and structural engineers and we were instrumental in successfully value engineering and optimising the infrastructure. Our drainage strategy linked together an extensive array of sustainable drainage features which result in a site that reduces flood risk, maximises bio-diversity and provides waterside amenity areas which create a unique environment to be enjoyed by the public. Our achievements were recognised at the ACE Engineering Excellence Awards in 2015 where BWB was named as winners of the Project Design category for our input at the development.

“BWB have been a key party in delivering the Gloucester Services. They have worked in partnership with the wider project team to deliver cost-effective designs that have not detracted from the now universally accepted high-quality environment that we have created.”

LAURENCE KING
Managing Director, Westmorland Ltd
A key challenge for placemakers is how to develop public spaces while responding to local transport needs. BWB’s experienced transport planners will ensure the infrastructure design creates a high-quality interchange that allows mobility and regeneration while simultaneously improving the public realm. By examining how people will use the area, we can help balance the needs of residents, pedestrians, cyclists and motorists with options such as active frontage, traffic calming, shared spaces or boulevard pedestrian plazas.

Sustainable transport plans can be developed by integrating cycleways and enhancing public transport access along with solutions identified for road safety and parking issues. Our engineers combine technical expertise with their extensive knowledge of the planning system to deliver sustainable and accessible developments. We are experienced in challenging local authority thinking by identifying pragmatic and innovative solutions that overcome technical and policy objections.
ARENA CENTRAL

Birmingham

Client: Miller Developments

Arena Central is a £400m mixed-use development incorporating extensive formal and informal public realm at the heart of Birmingham city centre. The 9.2 acre project has been the subject of both national and international attention, not just due to the site’s prominent location but also as the home to HSBC’s brand new UK headquarters.

BWB is extremely proud to have played a leading role in the formation and development of the landscaping strategy, including the establishment of sustainable urban drainage features at the heart of the concept. As part of the wider BWB team providing multi-disciplinary engineering consultancy services including structural, civil and geotechnical engineering, along with a wealth of ancillary planning and support services, our engineers and consultants have played an integral role in shaping and delivering this original and diverse public realm at the heart of one of Europe’s fastest growing cities.
We face a number of major challenges in relation to the management of water in urban areas. Water shortages, flooding and polluted watercourses are all signs of stress where built development has a poor interaction with the natural water cycle. Water is often seen as a barrier to development however water systems can have practical and positive sustainable benefits.

BWB’s Water Management teams understand that buildings and landscapes can be designed to capture, treat, store and resupply water locally while simultaneously improving placemaking. We can design water systems that provide greater self-sufficiency for communities through additional water supplies from sources such as surface water run-off or waste-water reuse. Through Water Sensitive Urban Design there is a fantastic opportunity to demonstrate how we can improve both the natural and built environments and, most importantly, our citizen’s health and wellbeing through connection to the natural water cycle.

“We face a number of major challenges in relation to the management of water in urban areas. Water shortages, flooding and polluted watercourses are all signs of stress where built development has a poor interaction with the natural water cycle. Water is often seen as a barrier to development however water systems can have practical and positive sustainable benefits.”

OUR ENVIRONMENT SERVICES INCLUDE:

• WATER ENGINEERING
• SUDS
• FLOOD RISK
• GEOTECHNICAL ENGINEERING
• GROUND IMPROVEMENT
• REMEDIATION
• EIA CO-ORDINATION

“Water systems can have practical and sustainable benefits.”
RESORTS WORLD
Birmingham
Client: Genting

BWB is delighted to have played an award-winning role in the £150m project to develop Europe’s first Resorts World complex at Birmingham’s NEC. Genting’s 554,000 square foot leisure and entertainment destination features a shopping centre, IMAX cinema, restaurants, bars, a hotel with spa and the UK’s largest casino. As part of providing civil, structural, geo-environmental and flood risk services, BWB played an intrinsic role in shaping and delivering a complex urban landscaping scheme within the NEC, including landscaped footpaths and cycleways, pedestrian sensitive highways and a waterfront promenade.

The original thinking and design expertise shown in our inputs at Resorts World, including an innovative solution for the surface water attenuation provision and numerous examples of original thinking in delivery of the hybrid structure, have been recognised with two prestigious industry awards; the first a regional Institution of Structural Engineers’ accolade in 2013, followed by a national ACE Engineering Excellence Award in 2015.

We have enjoyed working with the team at BWB and their insight and expertise has significantly contributed to achieving what has been an extremely complex build schedule and construction.

STEVE MYERS
Managing Director of Development, Genting UK
Sensitive building design is a vital consideration for creating successful and vibrant public spaces. Neighbouring structures can have a major impact, not just due to their visual appeal but also by physically creating shadow and wind issues that can make the surrounding environment far less welcoming.

BWB’s Buildings & Built Environment team provides a comprehensive range of sustainable solutions to ensure the adverse effects of existing or new buildings can be mitigated. We have extensive experience in the design of façade systems for both new and existing buildings plus a full range of wind engineering services and shadow cast analysis relating to building design.

We can also design site-wide energy solutions including energy centres and district heating which, if adopted at an early stage, are more cost effective options and can be fully co-ordinated with the urban realm.

“Only architecture that considers human scale and interaction is successful architecture.”

JAN GEHL
Harbour Central is a £240m residential-led, mixed-use development near Canary Wharf that will provide circa one thousand apartments in four tower buildings ranging in height from 14 to 30 storeys. BWB was commissioned to provide the engineering advice to develop the over-arching Urban Design Framework (UDF) for Millharbour Village. The purpose of the UDF is to provide a set of guiding principles for the entire Millharbour Village, which encompasses 3 adjacent development sites. We produced all the environmental and engineering reports used in preparation for the framework documentation.

Our Sustainable Building Services team used simulation methods to analyse sun paths and produced an overshadowing report. This demonstrated the shape of one of the towers created shadows over its communal courtyard, and this resulted in the building’s design being modified to allow sunlight into that public space.

BWB led extensive negotiations with the local authority to determine the incumbent energy guidelines and targets and allow us to develop the energy strategy for the new development. Building upon the impressive work done for the UDF, BWB was able to stave off strong competition to be retained by Pembroke Real Estates to develop the engineering design further to support the detailed planning application.
BWB Consulting provide integrated, multi-disciplinary engineering and environmental solutions for complex and challenging projects. Our diverse range of services, applied across multiple sectors, is delivered to an international Client base. We are proud to be renowned as one of the UK’s largest, owner-managed development consultants.

We plan, design and deliver successful projects across a broad spectrum of development sectors. A highly professional and personable service, delivered by talented people with a passion for excellence, ensures that Clients consider BWB a valued and trusted advisor, to whom they return time and time again.