



WALSH

**CIVIL, STRUCTURAL
& GEOTECHNICAL
ENGINEERING
EXCELLENCE**





Welcome To Walsh

STRUCTURAL, CIVIL AND GEOTECHNICAL ENGINEERING EXCELLENCE

Walsh is an award-winning civil, structural and geotechnical engineering consultancy focused on providing sustainable, viable solutions to complex engineering challenges.

Our focus on combining lean design and innovation with a holistic, proactive communications approach ensures that we unlock value and minimise costs for our clients.

We work across the residential, commercial and public sectors with specialist building use experience including life sciences, healthcare student accommodation and leisure whether that project be a new build, rebuild or repurposing scheme.

Founded in 1989, we have grown to a team of more than 130 friendly and engaging staff from diverse background and handle projects ranging from small schemes to masterplan regeneration projects.

This capability highlights just a few of our successes and we look forward to discussing the particular challenges of your own project and providing more references in due course.



Ian Welsh
Managing Director



30+

Year
Track
Record



130+

Multi-
Disciplinary
Engineers



100%

Director
Owned &
Managed



2

Offices
London
Birmingham



«£»

From Small
Schemes to
Masterplans



20%

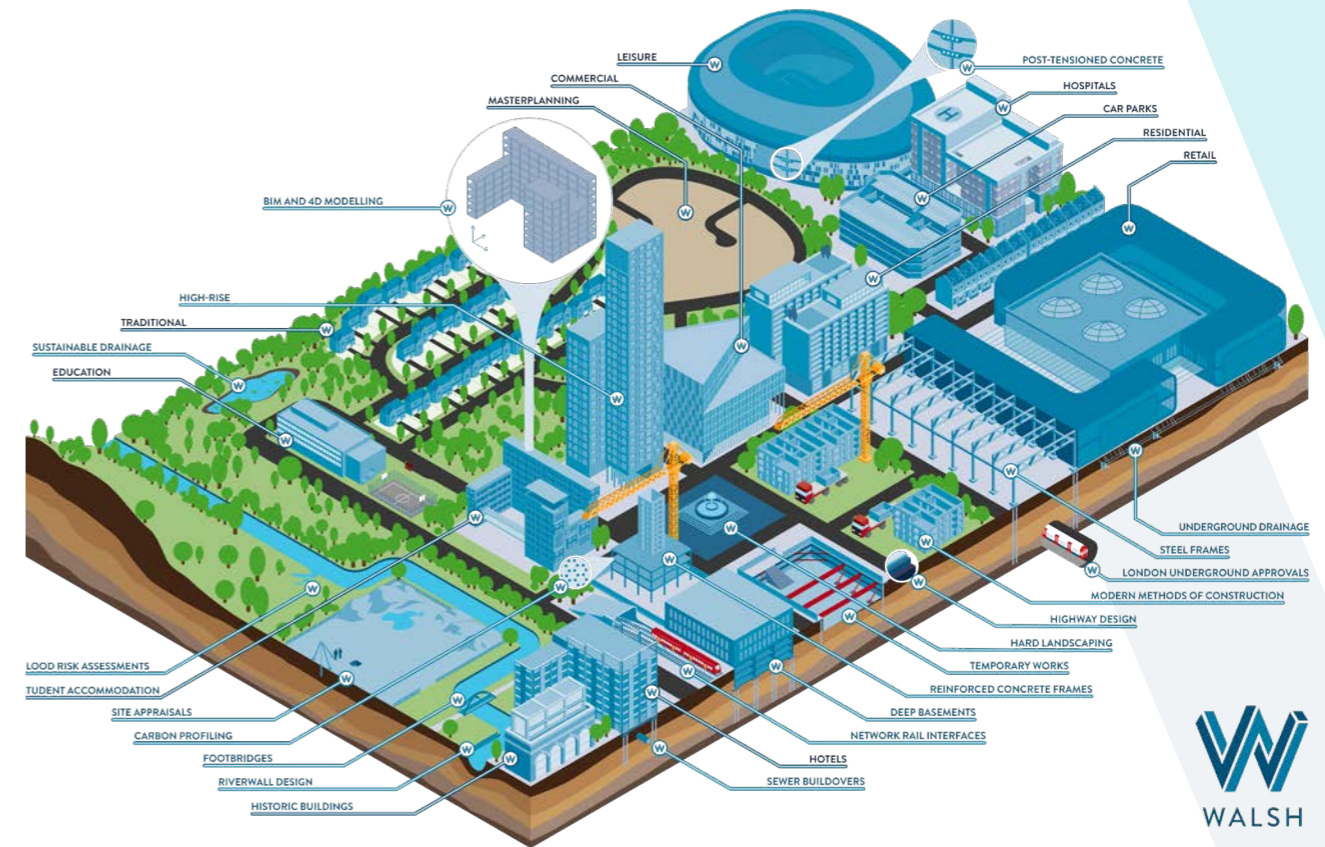
Average
Carbon
Saving

A Truly Integrated Engineering Solution

With Civil, Structural and Geotechnical engineering under one roof, Walsh is perfectly positioned to help you leverage our engineering expertise to make the optimum choices, maximise return on investment and achieve long-term value on any kind of development.

Whether you appoint Walsh for a single engineering discipline or multiple disciplines, we look at every project from every angle to anticipate the challenges of the site and mitigate risk. Working together as one unified team, we deliver programme surety and superior design solutions.

With projects spanning the full range of development types, our engineers are able to use their experience of best practise in one sector and apply innovative ideas to another.



A Track Record of Innovation

Walsh has a track record and culture of innovation and thinking differently about every day engineering solutions. We have technical teams within the business seeking to improve our designs and processes whilst optimising our use of available technology. Here are just a few examples of where we have led innovation initiatives that have solved technical and affordability issues for our clients.

Embassy Gardens

Facilitating the iconic skypool

This prestigious residential and commercial development features an extravagant Sky Pool placed between two of the structures. Walsh worked on all 8 plots at Embassy Gardens adopting a number of innovative solutions across the development. Along with collaboration with the pool designers to ensure compatibility of building movements and sway at the support points we used a variety of structural forms including steel and concrete long span hybrid systems.



Cobalt Place

Use of CLT to dramatically reduce embodied carbon

Cross laminated timber designs created a building with 5.9% less embodied carbon than a traditional reinforced concrete (RC) design. Under the London Borough carbon offset systems, an equivalent saving in CO₂ emissions on this development would be between £3.2 and £4.8million.

Walsh is currently working under NDA with a major commercial developer on CLT timber hybrid structural options and MMC prefabrication options.



Bankside

Plunged stanchions reduce construction programme

We value engineered this landmark building to make it quicker to construct and save on materials. Top-down construction for the triple basement sped development up using 'plunged stanchions' - a cutting edge approach. We designed concrete cores sitting on plate girders to fit within the width of the walls. This acted compositely with the walls above to save material and to reduce construction difficulty.



East Village

Creation of the 'Rising factory' with Mace & Ynomia

Walsh has pioneered the 'Rising Factory' with Mace designing the full depth pre-cast panels for slabs, walls and columns. We have assisted in the logistic management by determining reference numbers for elements which get embedded into the Revit files. Ynomia then physically asset track the panels through manufacture to site via Bluetooth transmitters and systems track the progress of the build virtually in the cloud.

Residential Engineering Expertise

One Thames Quay

Exceptional inner-city high-rise design

Out of the many high-rise projects that Walsh has worked on, One Thames Quay, a 49-storey residential tower located in the Isle of Dogs, is an excellent example. Walsh was appointed to deliver the project from planning to completion and build upon the original schemes. With our high-rise expertise and close interface with wind tunnel, we have been able to reduce the concrete in the stability system by approximately 20% and rework the grid to achieve a low density 200 thick RC slab.

An in-depth value engineering exercise was also undertaken with the Geotechnical consultant to interrogate the design and incorporate a piled raft solution. Doing this resulted in a 25% reduction in the piling requirements for the project reducing costs and accelerating the programme.

We worked closely with the client to achieve a more sustainable structure. Through close collaboration we managed to specify high cement replacement mixes that reduced the embodied carbon of the structure without impacting on the programme. We also specified high modulus mixed for the stability structure, this, along with a detailed testing regime, allowed for assumptions made within the design to be validated and resulted in a more efficient system that still meets the tight tolerances for tall buildings.



Hawley Wharf

Multi-award winning masterplan regeneration

Walsh has been involved from the conceptual and masterplanning stage with this landmark scheme in the heart of Camden to transform the derelict canal and surrounding area into high quality commercial, retail and residential spaces. The most challenging building in this exciting project is the New Camden Canal Market which overlooks Regent's Canal. Walsh proposed an efficient frame using post-tensioned slabs to achieve a typical 3m cantilevered slab edge. Additionally, we have used our expertise in the design of complex basements to deliver a 3-storey top-down basement situated between the active viaducts. This space boasts an impressive 10m first storey that is now home to an underground theme park equipped with a rollercoaster.



Millbrook Park

Delivering suburban family homes on brownfield sites

Millbrook Park is a development of 150 townhouses and apartments built on land once owned by the army. The site was confined with a heavy slope running across it and deadlines were tight. With our capabilities in SUDS, Infrastructure and Masterplanning, we were able to deliver a cost effective solution by value engineering the foundations to remove the piling element of the build and examining the soil structure to suggest the cut and fill of earthworks which would minimise soil export. We used detailed design to develop bespoke retaining wall elements to assist in construction, drawing on our expertise in reinforced concrete, steelwork, timber and masonry and quickly achieved Section 104 approvals.

Trafalgar Way

Integrating Passivhaus into PBSA build

Currently under construction, these three high-rise buildings set a new benchmark in purpose built student accommodation with exceptional environmental credentials including minimised embodied carbon and Passivhaus accreditation.

Working on the project since pre-planning, Walsh designed the scheme with a double skin facade to provide ventilation whilst ensuring air tightness across all penetrations. Masonry had to be designed without cavity ties with the balconies and sky bridge connections designed to reduce the impact of the thermal breaks.



Portlands Place

90% defect reduction with innovative MMC designs

Originally planned as a traditional in-situ concrete frame building, Walsh contributed engineering excellence which transformed Portlands Place into what is in practice a pre-cast concrete frame solution, allowing each floor to be built using off-site / MMC techniques in just three days. The innovative designs had a tolerance of just millimetres.

The approach taken delivered not only a 25% reduction in programme, but also reduced the embodied energy of the development by 15% through 75% waste reduction, 60% less on-site personnel and 40% fewer deliveries. The other remarkable result was a reduction in defects of 90%. All of which resulted in significant time and cost savings for the client.



Coppermaker Square

Maximising value on BTR development

Comprising nine residential blocks constructed over a two-storey site-wide basement alongside an 11,000m² extension to the existing Stratford shopping centre, Walsh had to work around the constraints of an existing DLR tunnel as well as analysing and utilising the capacity of existing structures to support the Coppermaker Square development.

Whilst verifying the stage 3 scheme, Walsh proposed multiple areas for maximising value that resulted in 14% fewer piles with a smaller diameter, a £2.5m structural steel saving, 53% less foundation excavation and a £1.5m saving in reinforcement.

Mayfield Retirement Village, Watford

Taking a lean approach to Later Living scheme

By utilising lean design and considering sustainability in the specifications, we realised significant savings for the client. In total a saving of 290m³ of concrete and 140 tonnes of reinforcing steel were stripped from the planning scheme. This reduction in building weight combined with an optimisation exercise on the foundation design led to a 25% reduction in overall number of piles required for the project.

Block B includes two levels of car parking below the apartment. By using post-tensioned slab techniques, the typical floors were reduced from 275mm thick to 225mm while still maintaining spans between columns to avoid the necessity for a transfer slab or beams above the car park.



Commercial Engineering Expertise

14 Westfield Avenue

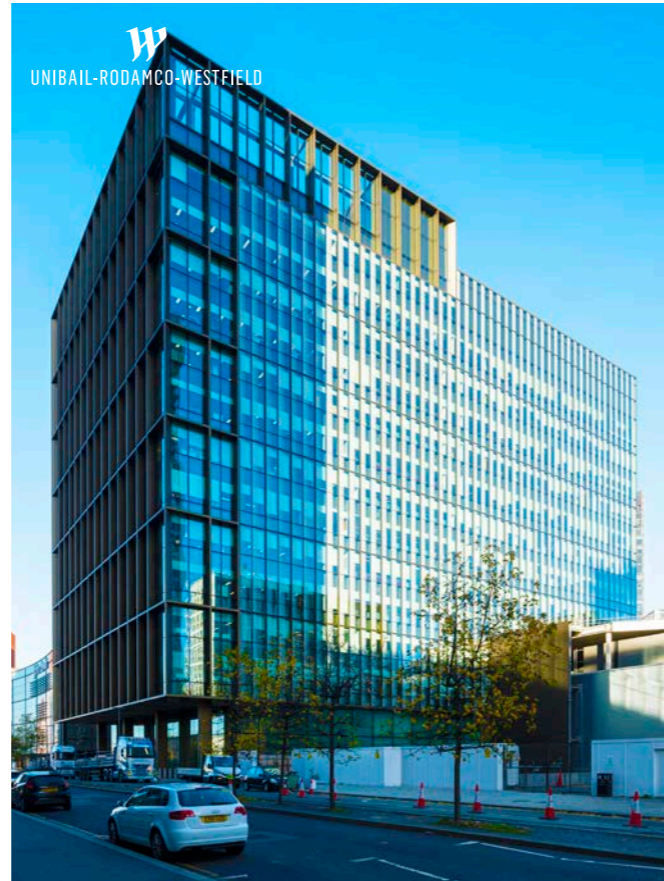
Lightweight construction accelerates construction & reduces carbon

This major office development in Stratford provides over 300,000 square feet of commercial space. The project consists of a 14-storey office block over a ground floor amenity space above a 7m deep basement. The northern half of the office block is built off a shopping centre.

The site was heavily constrained with the live Westfield Stratford shopping centre to the north, Westfield Avenue to the south, a John Lewis department store to the west; and the buried Woolwich Rail line to the east.

The final design employs around 3,700 tonnes of steel frame with cellular floor beams, supporting lightweight concrete floor decks resulting in a shallow combined structural and services zone. This lightweight construction minimised strengthening works needed to be carried out in the occupied retail spaces and the car park below as well as accelerating construction by reducing the steel piece count.

The Walsh approach also resulted in an embodied carbon footprint 20% below industry good practice. The project was subsequently shortlisted for an Architects Journal Award in recognition of the BREEAM Excellent rating it achieved.



New Street Square

Designing for challenging high-rise load distribution

This landmark commercial development in the heart of the City of London, incorporating high-rise blocks presented uncommon weight distribution challenges. The tallest block in this development was over 100m in height. This was slip formed and intentionally built out of plumb to counteract the natural lean. The unique weight distribution of this structure was due to the gravitational loads from the position of the core and the stress levels on the core and columns. We worked closely with the contractors on the design of the slip form cores to successfully manage this situation. Furthermore, we carried out analysis at several stages to evaluate the post construction movements of the cores prior to the floor plates being constructed.



127 Charing Cross Road

Extending & repurposing existing buildings

This four-storey concrete frame building with a single storey basement was originally built in the 1970s and the client planned a refurbishment and upwards extension to create high-end office space with BREAAAM Outstanding accreditation. By removing some of the existing loading and using lightweight structures, we were able to add an additional three storeys whilst reusing the majority of the existing frame.

The project constraints required complex justification of building over the shallow Crossrail assets that ran underneath based on complex analysis of the tunnel structures and a sequence of works that minimised disruption to a sitting nightclub tenant on the ground floor.

Westfield London Extension

Extending a live mall and removing existing cores

The new shopping centre extension had to respect the existing floor levels whilst achieving the required clearance for highways below which severely limited available structural depths. Around 15,000 tonnes of steel was used to create a very regular upper level column grid with spans of 8 to 12 meters. Part of the works was to create a linking mall between the two phases. Substantial reworking of the existing structure was required including the partial demolition and re-support of a large concrete core. A complete system of works were developed for strengthening of members, replacement, and removal of the structures all over the Westbound Central Line.



Paper Yard

Rationalising foundations for 'meanwhile' usage

The Paper Yard is 2,800m² of modular lab space in Canada Water created as a 'meanwhile' usage of a Masterplan site. Walsh designed the foundations for the modular buildings as well as undertaking the below ground drainage and external pavement design on this complex in-filled dock site. Walsh recognised that the labs had a short design life (specified as 10 years) and that long term durability issues were irrelevant. By designing the building for a 15 year life span, we provided redundancy and an optimised design when compared to the original design proposals which were based on 50 years.



Quay House Hotel

Design for aesthetics and space planning requirements

Walsh's involvement with the key design aspects of Quay House Hotel resulted in a structural frame that is an elegant solution that compliments the architectural aesthetics and space planning requirement of a hotel. Working from stage 3, we found cost savings in the design of the piled raft solution, simplified the upper floor column layout and optimised the transfer structure at level 3 where the building changes column grid, facade and floor plate extent.

Through continuous design optimisations, close working with each discipline in the design team and direct engagement with third-party stakeholders, our structural solution prioritised safety, material efficiency, buildability and reducing embodied carbon.

Tottenham Stadium

Post-tensioning design makes spaces for extra seats

Walsh took on the role of post-tensioned slab designer which involved heavy coordination and design development role. The design was complex due to the shape of the structure and the exposed conditions, so our skill in post-tensioned design enabled cost savings on materials as well as extra space for seats and important hospitality areas.

The typical floors utilised 275mm 10m span post-tensioned slabs but also required detailed design of cantilever post tensioned support beams for the pre-cast seating. Sequencing of works also became a critical design item as the stadium was built around the old stadium and other site constraints.



Mixed-Use Development Expertise

Embassy Gardens

Delivering a complex mixed-use, multi-phase development with sustainable credentials

This prestigious mixed use development is split into eight plots, that when combined provide around 2000 residential units and 500,000 sq ft of commercial space and demonstrates Walsh's ability to deliver large multi-phase developments.

A number of architects worked across the eight plots resulting in a number of architectural styles and expressions. Walsh were able to develop a standard frame system across the residential sites using long span PT flat slab construction that allowed flexibility for apartment layouts and resulted in a regular open column grid in the low level commercial spaces.

Of particular note is Plot A02 providing approximately 18,000m² of office space over eleven storeys. Walsh worked with the team to produce a very economical design while keeping within a stringent brief of a British Council for Offices (BCO) compliant building with an Excellent BREAAAM rating. We produced designs in several structural systems in steel and concrete for initial costing.

Walsh's involvement also included playing an integral role in the design of the world renowned swimming pool which spans between two of the residential buildings.



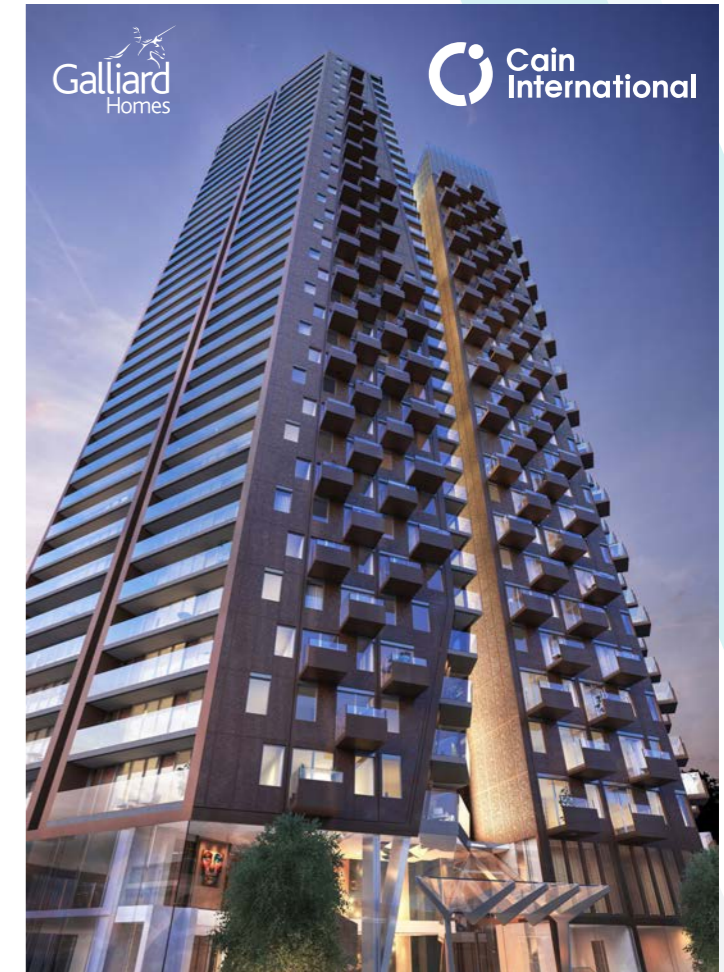
The Stage

Meeting the unique challenges presented by brownfield sites of historical importance

One of the focuses of this unique inner city project was the design of a complex 37-storey tower block, housing 412 high-tech luxury apartments overlooking one of the largest new public piazzas in the capital alongside two new commercial office buildings that presented a unique challenge. The project had numerous constraints typical of an brownfield site, including tight height restrictions and a complex sequence of construction due to the triple basements required, resulting in complex temporary works and the towers being built using partial top-down construction.

However, the site is also one of archaeological importance with the remains of The Curtain Theatre, which hosted William Shakespeare and his acting troupe. Once uncovered, the remains proved to extend under the proposed location of one building. This brought into question the viability of the entire development as reducing the footprint would reduce the amount of saleable space that could be delivered.

Walsh met this challenge by proposing placing two plunged column piles through the restricted area but locating them in less sensitive areas using the least intrusive method. This would eliminate transfer and open up the space to the public. To support this, a complex construction methodology was developed that demonstrated to Historic England that the proposed works could be safely carried out with little or no impact on the remains, before, during and after the construction. It was the first time that piles had ever been placed within the boundaries of a national monument.



Public Sector Expertise

Library of Birmingham

An award-winning, cost-effective public building

This award-winning library is one of the largest in the world. Our approach was holistic. We began by appraising the whole scheme from first principles and pictured the structure in its entirety. After this review we suggested a post-tensioned concrete frame solution instead of the originally planned steel frame. By using this incredibly versatile form of construction we were able to make significant cost savings. At the end of the project the team received praise from Birmingham Council for our ingenuity, efficiency and delivery of best value.



Tolworth Hospital

A flexible & sustainable healthcare facility

Walsh focused on delivering a lean and open design for the NHS Trust to help maximise the budget and give the them as much flexibility as possible to adapt the design as healthcare standards evolve. This simplified structural arrangement also supported speed of construction.

In line with government requirements, Walsh collaborated with the team on net zero carbon and MMC assessments, helping the Trust to choose the optimum scheme and construction approach whilst meeting the brief.



Hilton Link Bridge

Delivering infrastructure to support developments

Facilitating a bypass associated with a large residential development, Walsh worked with the contractor on this bridge to design out the need for piles and design an innovative bearing inspection pit which improved safety. Walsh proposed the use of a pad foundation to eliminate the need for piling. The highways authority initially resisted this idea as the bridge would have been the only one in Derbyshire of this span, not to be supported by piled foundations. However, with complex geotechnical and structural analysis of the subsoil and foundations, this innovative solution complied with all the technical approvals and led to significant cost savings.

Ealing Schools PFI

State schools with future servicing changes in mind

This project was to rebuild three state schools in Ealing on the grounds of existing schools with careful phasing to allow construction to allow the schools to remain open. The new buildings were originally intended to be of steel frame with pre-cast floors to keep the programme as short as possible but Walsh proposed a switch to post tensioned flat slabs on RC columns. Slabs were designed with sacrificial areas of slab to accommodate the possible future changes in servicing of these buildings. The Walsh approach reduced foundation loads, offered faster construction time and delivered significant savings to make the project viable.



Repurposing & Retrofit Expertise

9 Millbank

Repurposing and reusing existing structures to create luxury domestic residences

9 Millbank is the refurbishment and conversion of a majestic grade II listed office building facing the Thames and the rebuild of an adjoining 1980s office building which was itself built on the site of the 1920s Horseferry Road Power Station.

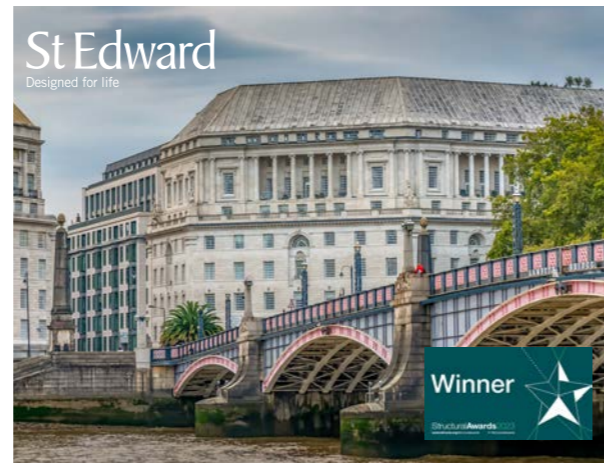
We inherited the project with recommendations to demolish the 1980s structure before designing a foundation strategy, that all foundations from the old power station should be removed and that the west wing of the existing building should be demolished to make space for a two-storey basement throughout and enough car parking bays. We immediately questioned the requirement for such extensive works on the grounds of cost, programme and sustainability.

With complex refurbishments, Walsh prioritises finding existing information about the building, so through very detailed archive searches and research, we were able to justify and design a reuse strategy for the old foundations and avoid demolishing more than was necessary. This also allowed us to maximise the load bearing on both buildings without needing to strengthen existing foundations and used innovative levelling strategies tackle some relatively serious differential settlement in the retained building.

This approach delivered on the client's objectives but saved on the breaking out of approximately 23,700 tonnes of concrete and 3555 tonnes of embodied carbon - the equivalent carbon produced by heating 1000 homes per year.

"The team fully embraced the circular economy approach by reusing and repurposing all of the existing 9 Millbank building instead of just retaining the façade. They respected, retained and reused ground structures of historical engineering significance including the superstructure and power station substructure, documenting these for generations to come."

Structural Engineering Awards 2023 Judges comments



Clarendon Centre Oxford

Reinventing retail as vibrant mixed-use communities

The Clarendon Centre project in Oxford is the redevelopment and repurposing of an existing 1960s shopping centre in the heart of the city. The works will transform the centre into a new 226,500 sq ft mixed-use scheme comprising R&D

laboratories, Grade A office space and student accommodation, as well as shops and restaurants.

There are a number of challenges that Walsh overcame including justification of the upwards extension of a number of existing buildings as well as developing structural designs suitable for this highly constrained site.



Hercules House

Reimagining a 1960s concrete office as a hotel

This project to repurpose a tired, concrete-framed building included ambitiously added five new floors, expanding the footprint by 15%, replacing the core and constructing a new basement. Atriums were filled to create hotel-friendly floor plans and ground-level columns were removed to accommodate a suitable lobby and reception area. As well as handling

complexities, including unexpected obstructions, variable foundation conditions, and fluctuations in groundwater levels, we designed a hybrid foundation system including full-depth trusses spanning the building's width, the reinforcement of the existing pad foundations and the necessary strengthening works to meet the project's swift timeline. A thorough temporary works strategy and detailed construction sequencing streamlined the final design.



Planning Advisory & Support

Ladbroke Grove

Support hybrid planning applications

Walsh provided support for a hybrid planning application on this major regeneration scheme. Our scope included the drainage impact assessment, water management strategy and basement impact assessment as well as the structural and civil advice and guidance through the scheme development. We advised on the phasing of the development including construction of the site-wide infrastructure for construction and final conditions and the interaction between new and existing Sainsbury's stores. The design also includes a number of new pedestrian bridges to be built across the railway and the canal.



TwelveTrees Park

Maximising efficiencies from masterplans

TwelveTrees Park is a major new development planned across 4 phases built on industrial land. Walsh's has provided structural, civil and geotechnical services on the delivery of the Phase 2 detailed planning application, developing the Stage 2 design of four residential and one commercial block along with the surrounding infrastructure. We have investigated building forms to maximise efficiencies and explore options to push building heights. Due to changes in building regulations, we are now supporting a new hybrid masterplan.

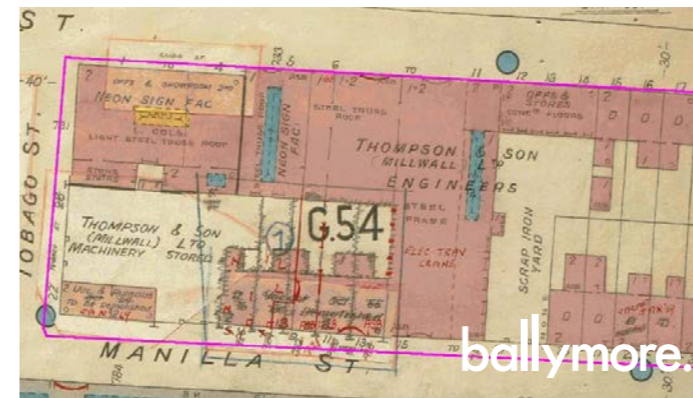
Geotechnical Expertise & Reporting

Cuba Street

Geotechnical studies & reports to support planning

Walsh provided pre-planning ground investigation scoping, management, and reporting for this site in the Isle of Dogs; the proposed site of a new 51-storey residential tower. Despite relatively complex contamination encountered on site, regulatory planning approval was granted on first submission.

We carried out a ground investigation to identify human health risks to future receptors, developed the Conceptual Site Model, an approved Remediation Strategy to address pre-occupation Planning Conditions and a Foundation Works Risk Assessment to assess the risk of hydrocarbon contamination impacting the principal aquifer of the Thanet Sands.

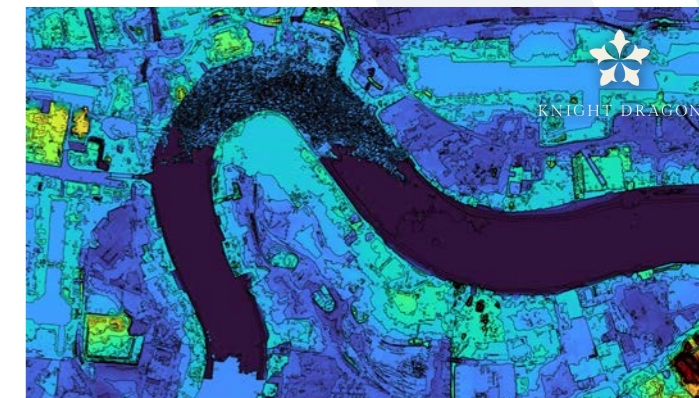


Greenwich Peninsula

Simplifying complex contamination & reporting

The Walsh Geotechnical team provided planning approval and sign off for land contamination related planning conditions for Knight Dragon development plots in Greenwich which are heavily contaminated from its past use as a gas works in the late nineteenth century.

In satisfying the EMS methodology, Walsh provided detailed geo-environmental and contamination reporting for two plots across the site. Our work has included detailed quantitative gas risk assessments, Foundation Works Risk Assessment, provision of Works Method Statement (WMS) and a Ground Movement Assessment.



Temporary Works Design

Camden Goods Yard

£m savings by reducing temporary works

We investigated, justified, and managed the design process for external buttress piles on the highly sensitive western site boundary, parallel to key Network Rail lines for Camden Goods Yard. On another elevation, the RC capping beam on a secant piled wall was extended to link pairs of piles, providing an anchor and enhanced wall stiffness which removed the requirement for internal propping on this elevation. Our approach to reducing and eliminating temporary works delivered an estimated £2.5million of cost savings.



80 Oxford Street

Multi-stage temporary works on a confined site

This retail and commercial development needed a 30m long façade lift between the first and fourth floors to be held in place during the demolition works and basement excavations. Once the new super structure was built the whole façade was raised by 900mm to align with the new envelope design. This was achieved by designing a principle support frame and a second frame behind the façade which was jacked up the face of the support frame. We also designed party wall support and a flying gantry to hold the site offices in place over Oxford Street.

Specialist Design for MMC & Off-Site



Portlands Place

Award-winning MMC design solutions

Walsh contributed engineering excellence which allowed each floor to be built using off-site / MMC techniques in just three days. The innovative designs had a tolerance of just millimetres to achieve a greater degree of prefabrication than ever with cladding attached to perimeter panels off-site.

The towers were originally planned as a traditional in-situ concrete frame build and were converted by Walsh into what is in practice a pre-cast concrete frame solution, a solution which had not been attempted before in the UK.

Greenford Quay

Volumetric modular structural intent & monitoring

Greenford Quay consists of residential layouts above a ground floor retail and commercial area with a lower ground car park. Volumetric modular MMC was not part of the development at planning so when MMC was brought in on each block post-planning, we had to be creative in introducing transfer structure for the modules while maintaining the building height. Walsh were able to design lean and efficient transfer structures to meet the requirements of the specialist modular manufacturer while maintaining the architectural flair of front of house areas, providing the structural intent, employer's requirements and ongoing monitoring.



Our Focus on Sustainability & Social Value

As a business, we reached Net Zero for Scope 1 & 2 carbon emissions in 2021 and are tackling the climate crisis by taking responsibility for the sustainability of our client's projects from planning, right through to delivery. Our 'Green Team' working group are driving sustainable innovation and solutions across all engineering disciplines whilst our new 'Social Value Team' are actively creating positive impacts on communities and lives.

Proactively Driving Down Embodied Carbon

Walsh delivers designs using processes and materials that are environmentally responsible and resource-efficient throughout a building's life. This is particularly important on developments that feature tall buildings and basements, both of which can be carbon intensive.

As engineers, the biggest impact we can have is on the embodied carbon of a building and we reduce this wherever possible. We use lean elegant designs to reduce materials quantities, building weight and foundation weight. We also consider the use of off-site manufacture to reduce waste. We invest in research on sustainable materials, maximising their use whenever possible to reduce the carbon embodied within our designs. Our work actively focuses on sustainable innovation and reducing the carbon cost of creating new homes, workplaces and communities.

ISO 14001

Certification Achieved

2014

DEVELOPMENT

Development of our In-house Embodied Carbon Assessment Tool

2015

LAUNCH

Official launch of our independently audited ECAT Calculator

2016

TARGETS

Key steps & timeline towards Net Zero Carbon established

2018

ACHIEVEMENT

Net Zero for Scope 1 & 2 emissions achieved.

2021

BROADER FOCUS

Social Value team established to focus on community & human impacts

2023

Delivering Social Value

Engineering has a key role to play in making any building suitable for a diverse community through considerations around adaptability and minimising local disruption around our client's developments, all without adding unnecessary expense or complications. However, supporting social value initiatives is an important part of our business and client approach.

We strive to create local employment opportunities and apprenticeships; we deliver schools outreach and education programmes and support charitable fundraising efforts to name just a few. This enhances our client's own ESG initiatives and supports their planning application commitments.

Aligning Ourselves with the UN SDGs

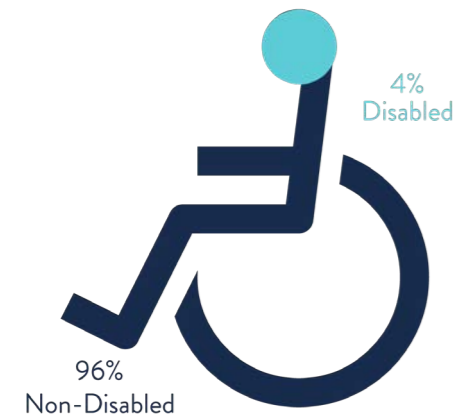
Walsh is aligning itself behind the UN Sustainable Development Goals wherever possible. From the way we manage our business and HR processes, to our designs and supporting community efforts and charities, we aim to build a more sustainable future.



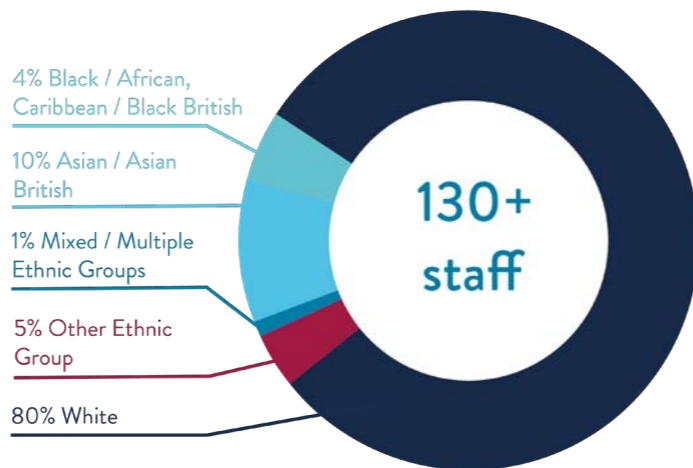
Committed to Diversity & Inclusion

Our people are our greatest asset; and the reason for our success as an award-winning engineering firm. From application to interview and employment to exit interview, we place inclusion at the heart of all we do.

As well as adhering to all legislation regarding equal opportunities, our teams are made up of people from a diverse range of demographics which encourages lateral thinking and creative problem solving. The kind of thinking and creativity that is absolutely essential to deliver engineering excellence.



*As defined by the Equalities Act 2010



Figures last updated: December 2023

The Walsh Difference

Collaboration is the Key to Success

A good engineer does more than ensure that a building stands up. The engineer is a key member of the design team. Walsh brings a holistic view of structural, civil and geotechnical engineering to the team and as such works in partnership with the design team, development team, and construction team to inform and shape the building from conception through to completion.



Honest Pricing

The fee we quote is based on providing an exceptional level of service outlined above. It has been our experience that our service ultimately produces substantial financial savings in build cost due to our lean design and high level of coordination. We price a project to deliver to the end of construction without a reduction in quality.



Senior Staff Engagement

Senior members of the team attend workshops as well as design team meetings to ensure any implications of different options can be identified and clear guidance given there and then. Too often we find that consultants send junior members of staff to such meetings meaning decisions are delayed.



Lean Design

Walsh prides itself in producing lean designs. Such lean designs can only be produced when we work with the team to design out unnecessary complications. While we would not want to inhibit architectural flair and expression, we work with the architect to achieve their vision in an economic way.



Once detailed design commences, we design the building elements rigorously to minimise material quantities. We always design with value in mind from concept to final construction details. For example, we often achieve rebar quantities 20-25% lower than those routinely quoted.

Proactive Approach

Walsh believe a proactive approach to design is essential in delivering an economic, safe and ultimately successful project. Designs carried out in isolation result in inefficiencies, gaps in design and potentially unnecessarily complicated construction.



Walsh adopt a very considered approach to our projects. We explore a range of options for each scheme and present these options to the client and design team in a way that enables informed decisions based on buildability, cost and any further effect on the overall design.

Exceptional Client Relationships

We pride ourselves on having long standing relationships with our clients. Our experience as a multi-disciplinary firm across several sectors means we are uniquely placed to solve and simplify the most complex of building projects.

ballymore.

Berkeley Group

BOUYGUES

British Land

Cain International

CANARY WHARF GROUP PLC

COUNTRYSIDE Places People Love

DELANCEY

ECOWORLD LONDON CREATING TOMORROW & BEYOND

Galliard Homes

GREYSTAR

HOLLYBROOK

KIER

L&Q

Landsec

lendlease

LOTHBURY Investment Management

mace

QATARI DIAR قطر

Sir Robert McALPINE

UNIBAIL-RODAMCO-WESTFIELD

urbanest

Wates

WILLMOTT DIXON SINCE 1852

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