



Martin Beckett

BSc (Hons) Civil Engineering (1st Class Honours, Bristol University)
Member of the Institution of Civil Engineers
Chartered Engineer

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Profile

Martin Beckett is a highly experienced engineer and director with significant expertise in business leadership and in directing and leading the design of major highway, rail and tunnel infrastructure projects through the development and DCO phases into design for construction. Through having worked with client, design and contracting teams he has developed an in-depth understanding of achieving the successful integration of design and construction and of the key business drivers for design, construction and client organisations. A Chartered Engineer by profession, Martin has training in collaborative business relationships, delivery to NEC3, and commercial and transformational leadership.

Key Experience

- Significant experience of delivering highway and tunnel DCO Applications
- Design management for highway and major civil engineering projects
- Extensive experience of directing design teams on D&B commissions
- Project leadership of multi-disciplinary teams
- Commercial and contractual leadership for major infrastructure commissions
- Business leadership: comprehensive understanding and experience in business direction, P&L ownership and managing business change
- Business and team leadership and direction: has led a diverse range of technical businesses delivering up to £15m annual fees with net contributions of up to 10%
- Project Procurement: Extensive experience of project procurement both as the promoters consultant and as the contractor's bid manager.
- Extensive international project and business experience

Experience

Jacobs Ltd 2014 to present

Director of Operations Highway Major Projects Division

Silvertown Tunnel DCO (£1.0bn) (TfL), Engineering Manager

Seconded into TfL as Engineering Manager directing the delivery of the Reference Design and Construction Methodology for the Draft DCO Application in May 2016. Drawing upon his A14 DCO experience, Martin ensured that the engineering was sufficiently developed to allow traffic and environmental impacts to be established, whilst retaining opportunity for construction innovation. Martin engaged widely with stakeholders including land interests, host boroughs, EA, PLA as well as key internal stakeholders.

A14 Cambridge to Huntingdon DCO Technical Integration Manager

Technical Integration Manager for the integrated J2A team with responsibility for co-ordinating engineering teams delivering Products up to HE Stage Gate 3 and the Engineering Deliverables for the Highways England (HE) Draft DCO Application in December 2014. Martin also took on responsibility for the production of the Consultation Report to DCO. Routinely co-located within the clients' offices, Martin worked closely with the PMO, NDD and HE assurance teams, developing and managing to an integrated design: assurance schedule for this £1.5bn Scheme.

Capita Symonds Ltd 1997 to 2014

2006 to 2014 Director, Engineering & Transportation East Grinstead

Major project leadership and full P&L responsibility for £15m pa turnover business unit delivering engineering consultancy services within the civil engineering and transportation sectors. Leadership and direction of business unit of up to 150 staff.

Delivery leadership with accountability to key transportation infrastructure clients including TfL, Highways England, Crossrail, Network Rail, hs2 and contractor partners for delivery of engineering services.

Projects delivered include Green Park Station tunnels for LUL; A421/A428 dualling for HE; Feeder 9 Tunnel Options Studies for National Grid; London Cable Tunnels (M&E and Ventilation designs) for National Grid; hs2 – design and construction studies informing the ES and consultation process for the Hybrid Bill

Held key roles on major projects, initiatives and frameworks including:

Crossrail Consultancy Framework Framework Manager

Framework Manager and Capita representative on the Crossrail Framework Consultants Board. Capita teams delivered services of over £15m in fee value for options phase, preliminary and detailed designs winning several Crossrail H&S awards for their risk-based approach to safety-by-design.

N7 Limerick Tunnel Project Director

Project Director for the commission delivering construction designs to D&C contractor, DirectRoute for the €600m immersed tunnel link on the N7 Limerick Southern Ring Road. Design scope included civil works construction designs as well as concept designs for the mechanical and electrical systems, tunnel ventilation, lighting, pumped drainage and ITS.

2006 Capita Champion Highways England CAT Process

Leadership of the CAT Teams delivering business improvements across Capita in preparation for the Highways Agency CAT 3 assessments in 2006/2007.

2003 to 2005

Associate Director, Civil Engineering Design Management for Major Projects

M25/A282 Dartford.

Designer's Project Manager for the Capita team delivering the tender designs for a section of motorway and trunk road widening for Highways England.

M3 Clonee Kells

Designers' Project Director for the Capita team delivering the tender designs for a section of the M3 Clonee Kells NRA Motorway DBFO project.

A249 DBFO Project, Kent.

Designers' Project Manager responsible for delivery of the tender and construction design for this £100m HE DBFO highway.

2001 to 2002

Associate Director, PFI Consultancy Lenders' Technical Advice

N4/N6 Kinnegad - Kilcock. Leader of the technical due diligence team advising Lenders to the successful consortia

A28 Autoroute, France. Leader of the technical due diligence for 128km 2 x 2 motorway in Normandy, the first major highway PFI project in France.

D47 Motorway, Czech Republic.

Specialist technical advice to Lenders for the 80km D47 motorway in Czech Rep.

1997 to 2000

Technical Director Capita Symonds, Malaysia

Technical Director for environmental projects in South East Asia managing the preparation of feasibility reports, proposals and competitive bids for water and wastewater projects for Vivendi Group. Responsible for liaison with legal and financial consultants engaged on the project teams and with Vivendi Group specialist engineering contractors.

- Bid Manager for an extensive range of competitive tenders for water and wastewater projects in Vietnam, Malaysia and Singapore up to US\$120m capex.
- Technical Due Diligence of Privatised Water Projects;
- Chengdu Water Plant BOT Project.
- Co-ordinated the successful \$100m bid for a 400 Ml/d BOT water project, the first PFI water project in China
- Technical and contractual support for Capita office in Manila: developed the project execution programme using Primavera Software for the Fort Bonifacio Water Project.

Taylor Woodrow International 1995 to 1997

Design Manager

Taylor Woodrow, Malaysia STAR Light Rail System - Ph II,

Design Manager with responsibility for managing the delivery of all permanent and temporary works designs.

- Direction of the consultants for the permanent works designs. Procurement and administration of major temporary works designs.
- Management of the design interface with the E&M consortium partners.
- Co-ordination of interfaces with external bodies including government and statutory authorities and developers of adjacent sites.

Mott Macdonald Group 1989 to 1995

1993 to 1995

Design Co-ordination Engineer

Karachi Water Supply Project, Pakistan

- Design Office Management: Managed the project design office
- Contract Procurement: Managed project procurement programme and bidding process
- Contract Administration: £32 million EPC contract for the M&E equipment during design and procurement stages.

1989 to 1993

Water Resources Planning Engineer, UK

Taylor Woodrow International 1985 to 1989

1985 to 1989

Site Engineer / Sub-Agent

Oman, Falkland Islands, New Zealand

Major civil engineering and building projects in Oman, Falkland Islands and New Zealand

Language Skills

Good written and spoken business and technical French



Richard Caten

Project Director/Expert Witness



infrastructure and regeneration



Richard's Profile

Richard is the Managing Director of Ardent and has over twenty years experience. In this time he has supported the promotion and implementation as the primary property advisor of over 20 Transport & Works Act Orders and Development Consent Orders.



Qualifications

- Member of the Royal Institution of Chartered Surveyors (MRICS)
- RICS Registered Valuer
- Member of the Compulsory Purchase Association



Key Skills

- Expert witness
- DCO & TWA Orders
- Land acquisition
- Compensation
- Implementation of powers
- Land referencing



Experience

Richard has considerable experience in the promotion and implementation of Development Consent Orders and Transport & Works Act Orders. Richard is a member of the Compulsory Purchase Association and a RICS Registered Valuer and has demonstrable experience in acting as an Expert Witness to support Order promotion.



Selected Projects

London Underground – Bank Station Capacity Upgrade (2014 – present)

The Bank Station Capacity Enhancement project is a complex tunneling scheme and new station entrance in the City of London. The project delivers significant passenger capacity enhancement at Bank Station through the construction of a new Northern Line tunnel together with a series of new traveller, circulation and escalator tunnels. Richard was appointed in 2014 to support the promotion of the Order primarily tasked with reaching agreements with high profile landowners. Richard also acted as the Expert Witness at the inquiry. Working with TfL Group Property Richard was successful in reaching agreements with all landowners and the inquiry was held without the attendance of any objections, which is unprecedented for a scheme of this nature.

London Underground - Northern Line Extension (2012 - present)

Since 2012 Richard has been Ardent's Project Director for the promotion and implementation of the new Northern Line extension to Battersea. In this role Richard was responsible for the land referencing, Book of Reference, Land & Works Plans, landowner objection management, Land & Works Agreement negotiation and Property Cost Estimate inputs. In 2013 Richard acted as the Expert Witness in relation to Land & Property at the Public Inquiry, where cross examination was limited to residents as agreements had been reached with all major landowners. More recently Richard has been advising the project in respect of Settlement Deeds, compliance with the landowner Agreements and Land Strategy. Richard and his team have also recently delivered the first area of land for the project by use of a General Vesting Declaration.

Ian Gee

Proposed role : Advisor Tunnel Engineering

BEng (Hons), CEng, MICE, MIStructE



Ian is a Chartered Civil & Chartered Structural Engineer with twenty five years experience, who specialises in the design of tunnels, underground structures and ground engineering for major infrastructure projects.

He has worked on some of London's highest profile tunnelling projects over the last two decades which include High Speed 2, a variety of Docklands Light Railway Extensions including Dagenham Dock, Woolwich, and Lewisham Extensions, London Underground's major stations upgrades including Victoria & Bond Street Station in addition to the Jubilee Line Extension, Channel Tunnel Rail Link tunnels and Heathrow Express.

Ian has worked in a number of roles including engineering feasibility through to detailed design but also as technical advisor for range of client authorities, project insurers and funders on projects including Crossrail Bored Tunnels, Arlandabanan - Metroselskabet, Copenhagen, and has worked internationally in Hong Kong, Singapore, South Africa and the USA.

Ian Gee

Civil Engineer

Director, Ground Engineering



<p>Profile</p> <p>Ian is a Chartered Civil & Chartered Structural Engineer with twenty seven years' experience, who specialises in the design of tunnels, underground structures and in ground engineering including the design of foundations and earth retaining structures.</p>	<p>Key Experience</p> <ul style="list-style-type: none"> • Planning stage engineering concept development studies • Scheme appraisal & option evaluation & selection • TWA, hybrid Bill and DCO statutory instruments for scheme promotion • Detailed design for construction of tunnels and associated infrastructure • Senior member of Atkins Tunnelling responsible for management and technical direction of a range of tunnelling projects 	<p>Profession</p> <ul style="list-style-type: none"> • Civil Engineer <p>Joined Atkins</p> <ul style="list-style-type: none"> • 1996 <p>Qualifications</p> <ul style="list-style-type: none"> • BEng (Hons) • Chartered Engineer, CEng <p>Professional Associations</p> <ul style="list-style-type: none"> • Member of the Institution of Civil Engineers, MICE • Member of the Institution of Structural Engineers, MIStructE
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A Selection of Experience with Atkins (1996 – present)

Transportation – Rail

High Speed Rail, UK : HS2 (London West Midlands) – C222 Rural South (HS2 Ltd)

Lead tunnel engineer with responsibilities for design of all underground infrastructure associated with this part of the project. Preparation of supporting documentation suitable for a hybrid Bill deposition to Parliament in November 2013, for all infrastructure required to support a proposed maximum 400kph line speed. The 'Rural South' contract is a 90km part of the wider project route, with approximately a quarter of the package route in tunnel, including five cut-and-cover tunnels and the thirteen kilometre 'Chilterns Tunnel' running through the Chilterns designated Area of Outstanding Natural Beauty.

Responsible for providing support to HS2 Ltd through Public Engagement for the scheme, and technical evidence support to HS2 Ltd during passage of the hybrid Bill through the House of Commons.

Crossrail – C122 Bored Tunnels (Cross London Rail Link Ltd)

Director responsible for non-located team preparing programme-critical Thames Water major sewer protection measures. Works involve fast-track preparation of detailed design for construction including - access to Thames Water's existing 3.5m diameter North East Storm Relief Sewer storm sewer and structural reinforcement of the sewer to protect against imposed ground movements arising from construction of Whitechapel Station and related tunnelling works.

Bond Street Station Upgrade Project, UK (VINCI-BAM Nuttall JV)

Design Review to Atkins (HAT) detailed design team, for all subsurface works for the largely tunnelled station upgrade. The upgrade works comprised new step free access provision, new passenger escalators access to the Jubilee Line and improvements to egress provision.

Victoria Station Upgrade Project, London UK (London Underground Ltd)

Project Director for the Independent Category III design check of all shafts, tunnels and underground station works of the >£500M capital upgrade project. The checking works covered extensive SCL tunnel adits driven both in and above London Clay, escalator declines, a new satellite and capacity-enhanced ticket offices, with associated interchanges. The checking encompassed ground characterisation, finite difference ground movement prediction from tunnelling and bulk excavation works, and their effect on existing London Underground infrastructure.

Cityringen: Copenhagen Metro, Denmark (Metroselskabet)

Design Review Lead responsible for leading Atkins 20+ strong team of independent multi-disciplinary reviewers of the 2\$Bn new circular underground metro system. Design review spanned design basis, specification of works, procurement and contract documentation. Independent design review undertaken for Metroselskabet immediately in advance of the project being offered to the design-and-construct market.

Gautrain Rapid Rail Link, Republic of South Africa (Bombela Construction JV – Bouygues, Murray Roberts and JV Partners).

Team Leader for detailed design of a variety of hard rock cavern structures on the underground section of this new suburban railway linking Johannesburg with Pretoria. Structures included temporary construction and permanent shafts, portals, and rail crossover caverns in Granites and Diabase. The caverns included deep and spatially complex underground stations with main station cavern spans of 16m, and shotcrete and rockbolt reinforced rock vertical shafts 50m deep, supporting upper level station concourses constructed within deep diaphragm wall 'boxes'. The design integrated construction requirements for phasing and multiple face working.

Docklands Light Railway, Dagenham Dock Extension, UK (DLR Ltd)

Lead for all substructure engineering. The scheme entailed development from concept, of a twin bored light railway extension including a crossing of the river Roding, one of London's largest operational treatment facilities in London and beneath a series of Thames riverside wharfs. The design included tunnel, intervention and ventilation shafts, adjoining cross passages and portal and cut-and-cover tunnel approaches. The role involved development of designs with suitable supporting information for deposition of a Transport and Works Act Works Order in April 2008.

Bond Street RIBA C+ Station Upgrade Project, UK (London Underground)

Review Engineer. For all subsurface works for the approximately £150m capital station upgrade. The upgrade works comprised new step free access provision, new passenger escalators access to the Jubilee Line and improvements to egress provision.

Bank Western Extensions - Docklands Light Railway , UK (DLR Ltd)

Tunnelled extension route option costs and engineering feasibility study. The study entailed development of outline feasibility schemes for extending the DLR Light Rail network west across central London with key interchanges with Network Rail (Thameslink), London Underground. Destinations considered comprised Charing Cross, Liverpool Street, Moorgate and Farringdon. All scheme options comprised exclusively underground routes to form the new terminus stations and extensive twin bored tunnelling with associated shafts and underground stations.

Victoria Station Groundwater Cooling Trial, UK (London Underground / Metronet)

Technical Reviewer. For design evaluation of impact on existing tunnel linings of suspending trial cooling units developed by South Bank University, from segmental iron tunnel linings.

Sofia Metro (VINCI Construction Grand Projects)

Managing technical tender design services for the contractor on the 2km long bored 5.2m I.D tunnel scheme comprising two new underground stations constructed by cut-and-cover.

Confidential Scandinavian Transportation Tunnel, Project Noggin (Macquarie Bank)

Technical Advisor. To the bank on design and construction of a 5km drill-and-blast hard rock tunnel with 23m wide, station caverns.

Tel Aviv Metro Red Line, Israel (Mesillot) (Project Managers to NTA Metropolitan Mass Transit System Ltd)

Project Manager. For Geotechnical & Tunnelling specialist consultancy services, role has included preparation of a geotechnical interpretive report of an 8km underground section of the route with eight underground stations. Services have also included advice on bored tunnelling settlement impact assessment, technical tunnelling specification.

Docklands Light Railway, Woolwich Arsenal Extension, UK (DLR Ltd)

Deputy Project Manager, for the preparation of an engineering feasibility study and preliminary design in support of a Transport and Works Act, Works Order Application. Responsible for tunnelling and all underground works issues, including the identification of alignment constraints and selection of feasible railway route alternatives, the development of outline strategies for tunnel ventilation and fire access/egress and technical co-ordination with affected third parties including utilities, local government and executive government agencies.

Represented DLR (TfL) as Expert Witness at successful TWAO Public Inquiry for the scheme.

DLR Lewisham Extension Bored Tunnels, UK (City Greenwich Lewisham Rail Link Plc)

Technical Advisor. To CGL Ltd, infrastructure concessionaire for the effects of deep level grouting activities associated with a property development, on the existing pre-cast concrete shield driven tunnel linings. Advice included assessment of the behaviour of the tunnel linings including induced lining and joint loadings and displacement.

Paddington Station Masterplan Phase II, UK (Railtrack Plc)

Project Manager. For Foundation and Substructure Design of a proposed railway station and commercial development including outline feasibility design of high capacity foundations and substructures, preparation of a geotechnical investigation, geodetic and tunnel condition surveys and presentations to, and liaison with, affected parties including LUL.

West Coast Mainline, Stowehill and Northchurch Tunnels and Shafts, UK (Railtrack Plc)

Project Engineer. For feasibility study into the options for providing surge pressure relief to the existing tunnels. Preparation of outline cost estimates, drawings and definition of a possessions-based programme of works.

KCRC West Rail, DB320, Kwai Tsing Tunnels, Hong Kong (Dragages Zen Pacific JV)

Section Design Manager / Deputy Project Manager. Responsible for detailed design of tunnelling permanent and temporary works, including cut and cover, hard rock drill and blast and soft ground tunnelling, as listed below:

Ha Kwai Chung Tunnel, 1.7km Rock Tunnel, Hong Kong (Dragages Zen Pacific JV)

Responsible for the design of temporary rock support for twin track rock tunnels with ancillary niche caverns, bifurcations, high speed turnouts and heavily skewed rock portals. Permanent works design for plain, conventionally reinforced and sprayed concrete linings.

Tsing Tsuen Tunnels, 1.9km Bored Segmentally Lined Tunnel, Hong Kong (Dragages Zen Pacific JV)

Responsible for the design management of sub-consultants, and the settlement impact assessments of a variety of adjacent structures, including forty storey building structures, elevated MTR viaducts, DSD nullahs, and highway and pedestrian bridge structures.

Tsuen Wan Tunnels, 145m of Twin Cut and Cover Tunnels, Hong Kong (Dragages Zen Pacific JV)

Responsible for the detailed design of the twin 20m deep reinforced concrete tunnels, including the preparations of construction drawings, specifications, and associated deliverables including durability submissions. Responsible for the development of the railway alignment for the entire 3.7Km tunnels, and co-ordination with KCRC's system-wide contractors, including ventilation, traction power, permanent way and adjacent construction contractors. Also involved in the value engineering development of an optimised cross passage solution for emergency escape within the TBM driven tunnel.

KCRC West Rail, DD300 - Tsuen Wan Station, Hong Kong (KCRC)

Design Discipline Leader responsible for the detailed design of 500m of cut and cover tunnels to 25m deep. Responsible for all aspects of the design of the permanent works and also indicative temporary works design. The design included combined permanent and temporary works diaphragm walls with top down and bottom up construction, with complex construction sequences and highly constrained sites, preparation of drawings and specifications, assessment of settlement impact on adjacent structures and the co-ordination of design with system wide contractors.

KCRC West Rail DD350 Tai Lam Tunnel, Hong Kong (Maeda/Chun Wo JV)

Senior Engineer. Responsible for preparation of tender designs. Design work included permanent works cut and cover tunnel, and temporary works excavation support in sheet pile, diaphragm and contiguous bored pile walls.

Aqueducts between Tai Po and Butterfly Valley, Hong Kong (Leighton Kumagi JV)

Senior Engineer. Design check and investigation into steel inner liner capacity, within the deep TBM driven rock tunnel.

Docklands Light Railway, Lewisham Extension, UK (Mitsui-Nishimatsu JV)

Deputy Project Manager. For the detailed design of tunnelling permanent and temporary works in reinforced concrete and structural steelwork. Duties also included assessment of the impact of tunnel construction on adjacent structures including gravity retaining walls, 14th century structures and existing deep shafts. In a separate commission for the contracting J.V. responsible for the design of a variety of temporary works for the TBM slurry processing plant.

Singapore North East Line, Mass Rapid Transit Railway - Contracts 704 & 705 (JDC JV)

Responsible for tender design of reinforced concrete cut and cover railway structures. Design of foundation systems for bridge piers of an elevated highway. Preparation of tender drawings.

Transportation – Road

Silvertown Tunnel, London, UK, DCO Reference Design, (TfL)

Preparation of a Reference Design to support the DCO (Development Consent Order) application for a new twin two lane bored highway tunnel passing below the river Thames in London. Responsible for the engineering design all aspects of the twin bored tunnels, which are to be developed from the Greenwich Peninsula to Silvertown in east London, with a route threading through the existing Emirates Airline cable car infrastructure, and extensive mixed use development proposed for the Greenwich peninsula, and through areas of formerly extensively developed industrial land.

Responsible for preparation of written evidence for the DCO application for the scheme, and for review of non-engineering DCO application documentation. Proposed Engineering Expert Witness for the Scheme, and responsible for certain aspects of technical stakeholder engagement in the pre-examination period.

Silvertown Tunnel, London, UK, Independent Peer Review (TfL)

Acted as expert tunnel design reviewer in conducting an independent peer review on behalf of TfL of the feasibility design of the Silvertown Tunnel project. The review covered the rationale and selection of preferred engineering solution for the crossing, considered key aspects of the scheme's engineering technical feasibility and also considered capital cost estimates, treatment of risk and risk contingency, and construction methodology.

Park Lane Highway Undergrounding concept study, London (TfL)

The short concept study considered the technical viability of undergrounding part of Park Lane, to relocate the facility and to explore the potential for reuse of space created by the relocation.

A3 Hindhead Tunnel, UK (Highways Agency)

Review engineer on 1800m long twin bore SCL tunnels constructed through sandstone formations.

Rikoti Ridge Highway Tunnel, Georgia

Rehabilitation options and cost study for civil & M&E upgrade for the existing tunnel, poorly constructed in 1982. The tunnel exhibited widespread signs of distress including severe cracking and leakage in the lining, which was constructed in sections of up to 1000m depth. The design review included a variety of upgrade options and benchmarked the implications of plying the EU Tunnels directive on the existing infrastructure.

Tunnel Costs Study, UK (Highways Agency Research and Development Framework Contract)

Tunnelling support to development of a rational approach to highway tunnel costing.

Bander Al Jissa, A'sifah, Quriyat Road, Oman (Sultanate of Oman)

Project Manager. Feasibility study into proposed rock tunnels forming part of the highway route near the proposed Bar Al Jissa resort development.

Egnatia Highway, Votonosi and Anthochori Tunnels, N Greece (Egnatia Odos A.E.)

Project Engineer. For Category III Independent Design Checking of rock tunnels. Responsibilities included check designs of reinforced concrete linings of the tunnels, which were constructed by drill and blast excavation. The check design commission also included check designs of gravity retaining walls in a seismically active zone, portal structures and associated slopes.

Dingle Brook Bridge, UK

Senior Engineer. Responsible for the Category III structural design check of precast concrete segmental arch units to BS5400.

Power (Nuclear & Energy)

Confidential Project – 1000MW Power Station Cooling Water System decommissioning

Project Director for a feasibility study and detailed design of decommissioning works of existing tunnelled cooling water system for an existing power station. Works concerned removal and/ or stabilisation of deep tunnels, river bed intake and outfall structures, and associated shafts.

Hinkley 'C' Marine Works, (Morgan Sindall-VINCI-Balfour Beatty MVB JV)

Design-and-build tender design for marine works package of works for EDF's proposed twin EPR reactors. The works included a variety of offshore shafts and junction structures for the 11km of cooling water circuits with 7m dia. outfall and twin 6m dia. intake tunnels (separate intake for each reactor), to be constructed in the mudstones of the Severn Estuary.

Geological Disposal Facility, GDF, Generic Design Review (Nuclear Decommissioning Authority, NDA). The commission entailed design review of illustrative designs prepared by NDA for three generic host geologies, which were presented in a series of reports, to be subsequently released to the public domain by NDA. The review focused on aspects of engineering the underground space, and communicating the intent of the programme development.

Power Line Undergrounding PLUG Tunnels (Olympic Delivery Authority)

Responsible for team assessing the effects of a variety of development over the existing new build segmentally lined bored tunnels carrying EdF and National Grid power supply cables. Developments included the London Aquatics centre, Channelsea valley bulk filling and a variety of other structures including piled bridge abutments.

Beddington – Rowdown Cable Tunnel, AMEC

Design–and–build tender design for approximately 10km of bored tunnel scheme for National Grid Transco, including headhouse site compounds and surface structures.

Lower Lea Valley Overhead Power Line Diversion (London Development Agency)

Tunnel Advisor. For this Technical Feasibility study into options for the undergrounding of National Grid & EDF power lines.

Water

Thames Tunnel, Detailed Tunnel Assessments, CH2MHill, Thames Tideway Project

Project manager and Technical Lead for the assessment of key existing tunnelled rail infrastructure affected by the proposed Thames Tunnel construction. The assessment work entails inspection and numerical assessment of the impacts of construction on the LU's Bakerloo, Waterloo and City, Northern Line and (Brunel's) London Overground Tunnels passing under the river Thames.

Puny Drain Pipe Jack Design (English Partnerships UK)

Design of twin 1.5m I.D pipe jacking scheme for a drainage diversion beneath an operational railway line. Design works included pipes and drive and reception chambers and associated headwalls. Ground conditions comprised Kimmeridge Clay and a high groundwater levels.

Ilkley Embankment Stabilisation (Pipe Jack)

Detailed design of pipe jacked drainage scheme undertaken to reduce groundwater impoundment and resulting ground pore water pressure adversely affecting stability of embankments, historically prone to slip failure.

Confidential (Saudi Geological Survey)

Project Manager. For specialist services relating to stabilisation of abandoned deep rock tunnels and shafts.

Belfast Sewers Project, Water Service, Belfast (Department of Regional Development)

Project Reviewer. For the commission to develop preliminary designs for a new 10km long bored tunnel sewerage system within the Belfast urban area.

Birmingham Northern Relief Road, Tunnelled Culverts C149 (Cambba)

Project Manager. For independent category II check of 1.95m I.D pipes. Responsible for detailed design check of the works which encompassed structural capacity and detailing of pipes and independent prediction of settlements associated with construction of the four pipes installed beneath Network Rail lines by pipe-jacking.

Belfast Sewage Sludge Incinerator Project, UK (Design And Build) (Farrans Construction)

Senior Engineer. The project constructed by Farrans for the Water Services Department of the Department of the Environment, Northern Ireland comprised temporary works designs including a cofferdam 25m x 21m in low strength clay, and internal propping.

Littlehampton and Bognor UWWTD Enhancements, UK (Southern Water Services)

Project Manager. For geotechnical and contaminated land investigations of approximately £100k. Site investigations covered a 16km proposed pipeline route and a former military airfield. Pipeline route also incorporated a proposed tunnel crossing of the River Arun at Littlehampton.

Other

Peacocks Centre Basement, Woking (British Land)

Project Manager. For preparation of remedial repair design and site execution of severely leaking diaphragm wall basement structure to the shopping centre. Proprietary hydrophobic polyurethane resins (foaming resin grouts) were used to affect a leaking panel joint.

A Selection of Programme and Project Experience Prior to Present Employer

Mott Macdonald Consultants (1989 – 1996)

Various Projects including:

Boston Central Artery/Tunnel Project, Jacked Tunnels, USA (Maguire/Harris JV)

Senior Engineer. Responsible for the design of reinforced concrete tunnel units 78ft by 38ft (24m by 12m), for permanent works loading including seismic analyses and temporary construction (jacking) loads. All design undertaken according to the provisions of the American Railways (AREA) design codes. Also responsible for temporary works design including reinforced concrete thrust bases to AASHTO design codes to be used for the installation of the above units by tunnel jacking methods. Design review of multi-propped deep cofferdam excavations in Boston Blue clay, to a depth of 70ft (21m).

Battersea Yard Bridge, UK (Railtrack Plc)

Engineer. Responsible for design check of new piled bridge abutments carrying high lateral loads from fill and superstructure (fixed bridge bearings). Associated work included estimation of short term elastic and consolidation settlements and their effects on adjacent structures.

Schola Green to Middleton Pipejack, UK

Engineer. Responsible for prediction of settlements caused by caisson sinking and the pipe jacking process.

Heathrow Express Contracts C&D, UK (Balfour Beatty)

Engineer. Responsible for producing settlement assessment reports for the structures affected by the tunnelling works associated with the construction of the Central Terminal Area Station.

Jubilee Line Extension Contract 102, UK (Balfour Beatty/AMEC)

Engineer. Responsible for the production of phased settlement predictions for the tunnelling works including construction of Waterloo and Westminster stations. Involved in temporary works design checks for Contractors alternative VE schemes, including deep level and flying props in the diaphragm wall station box.

Stratford Station Western Concourse, Jacked Subway, JLE Contract 117, UK (Bilfinger and Berger)

Project Engineer. Responsible for the preparation of tender designs, including jacking pit (sheet pile cofferdam), mini-pile walls, and reinforced concrete thrust slab and the determination of jacking resistances.

Sevenoaks School Pedestrian Subway, UK (Johnston Construction)

Project Engineer. Responsible of the category III structural design check of the jacked precast concrete tunnel units. Detailed design of the reinforced concrete approach and exit portal structures.

Ambleside Waste Water Treatment Works, UK (Harbour & General)

Engineer. Responsible for hydraulic and structural design of treatment works extension under an IChemE Design and Construct Contract.

Preston Town North Drainage Area Study, UK (North West Water)

Assistant Engineer. Responsible for the production of verified hydraulic model, needs and options report.

Middlewich Street Sewer, Crewe, UK (North West Water)

Assistant Engineer. Responsible for the preparation of a Solution Stage planning Note and design brief for a structurally inadequate sewer serving a population of 4,200.

Cumbria Zonal Planning, Network Analysis, UK (North West Water)

Graduate Engineer. Worked on the production of four detailed network analysis for rural and urban populations from 2000 to 27 000. Involved in planning, programming and the execution of field testing of the networks, and construction/calibration of the models with preparation of associated drawings and reports. The projects also

involved presentations to the client.

Taylor Woodrow Construction Northern Ltd (1991 – 1992)

Secondment.

Various projects including:

Ewden CWR, UK (Yorkshire Water) - Seconded to Taylor Woodrow Construction

Site Engineer. For the construction of reinforced concrete service reservoir and ductile iron transmission pipe work up to 900mm in diameter.

Burton and Horton WWTW, UK (Yorkshire Water) - Seconded to Taylor Woodrow Construction

Site Engineer. For construction of these two new treatment works. Responsibilities included all setting out, monitoring progress, ordering materials, and supervising sub-contractors.

Blackburn Meadows WWTW, Sheffield, UK (Yorkshire Water) - Seconded to Taylor Woodrow Construction

Site Engineer. For construction of reinforced concrete structures, 800m access road and services.

Publications and Conference Papers

A.D.Hardingham, O.Martin, I. Gee. 'Design and Construction of the Kwai Tsing Tunnels' International Tunnelling Summit, Hong Kong 200

Awards

Institution Of Structural Engineers (2001)

AE Wynn Prize. Highest examination score (all entrants) in the Part III examination for any solution in reinforced concrete.

SIOBHAN READE



Member of the Royal Institute of Chartered Surveyors (MRICS) since 2000
Member of the Compulsory Purchase Association since 2012
BSc(Hons) Real Estate (Land Management)

PERSONAL SUMMARY

A self motivated team player with excellent communication skills and extensive property experience. Possessing a proven ability to ensure project objectives are delivered efficiently, meeting client needs. With a clear focus on problem solving and implementation of approved processes, I am able to provide high quality property advice on the promotion and implementation within the specialist subject area of Compulsory Purchase. With excellent interpersonal skills I am able to work both independently and in a team in order to meet key objectives, together with having strong leadership skills to ensure that the desired outcome is always achieved.

WORK EXPERIENCE

Transport for London: August 2012 – Present

Senior Surveyor

Senior Surveyor within the Operational Property Crossrail team assisting with the acquisition of land interests and property rights by both agreement and under Compulsory Purchase powers to deliver the underlying Crossrail scheme. In addition, working within the GLA team, providing CPO advice on their key regeneration projects with a primary role in the Southall Gasworks CPO 2014 following completion of a Promotion Agreement with St James West London of the Berkeley Group for the regeneration of this brownfield site. Leading on negotiations for Third Party Agreements Silvertown Tunnel Development Consent Order

KEY SKILLS & COMPETENCIES

- Negotiating Land & Works Agreements for Silvertown Tunnel Development Consent Order Application
 - Negotiating claims following the implementation of Crossrail CPO powers for land interests required in Central London and North East spur of the Crossrail line.
 - Leading, coordinating and instructing Expert Witnesses in matters referred to Lands Tribunal with responsibility to report to senior management on progress and make recommendations by having a key interface with both the legal and expert team.
 - Undertake and maintain Property Cost Estimates on behalf of Crossrail and Crossrail 2 on behalf of the internal clients and EXPO 2025 for GLA
 - Key member of the GLA team responsible for agreeing the terms for the Promotion Agreement with St James West London ahead of the making of the Southall Gasworks CPO.
 - Negotiate and agree on behalf of the GLA Property Cost Estimate with St James West London to ensure any possible exposure to the GLA is captured under the Promotion Agreement.
 - Key team member advising GLA's MDC team of the key components required in order to deliver a successful CPO on the Old Oak and Park Royal Regeneration area including coordinating the necessary strategic property advice which was required and presented to the Assembly Members demonstrating how the Mayor's 'Vision' would be delivered.
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London Borough of Barnet: June 2001 – August 2012

Principal Valuer

Senior member of the Local Authority Property Services & Valuation department. Responsible for a varied portfolio since 2001. Achievements included assisting in the making of a Compulsory Purchase Order for the Stonegrove Spur Road Housing Estate (December 2011) and the implementation of the Grahame Park Compulsory Order (November 2010)

2008-2012: Internal property advice on the Council's Housing Regeneration Projects. Implementation with other senior officers of the Disposals Programme.

2005-2008: Asset and estate management of the Council's commercial portfolio. Property advisor for the Primary School's Capital Investment Programme.

2001-2005: Disposals, Landlord & Tenant Law, valuations, appraisals, land transfer of one of the first Academies - Edgware, housing regeneration

KEY SKILLS & COMPETENCIES

- Negotiation of acquisitions through Private Treaty. Applying the Compensation Code to negotiate acquisitions following the implementation of a Compulsory Purchase Order
- Obtaining consent from the Secretary of State for the disposal of Council land
- Land disposals under S.123 Local Government Act 1972 & S.233 Town & Country Planning Act 1990. Disposal under Critchell Down Rules. Appropriation of land S.122 Local Government Act 1972
- Grant of Demolition and Works Licences. Grant of Leases both secure and unsecure in accordance with the Landlord & Tenant Act 1954
- Property advice on Principle Development Agreement
- Making & implementation of Compulsory Purchase Order
- Residual valuations. Preparation of Tender Packs for disposal on both a binding & non-binding basis
- Extensive experience working with multi-disciplined project teams

bmi - British Midland - June 2000 to June 2001

Property Management Surveyor

Rent Reviews, New Leases & Lease Renewals for required property interests.

London Borough of Barnet - June 1999 to June 2000

Valuer

Rent Reviews, Licences, Leases, Property Management, collating and analysing comparable evidence, report writing, site inspections,

London Borough of Ealing - June 1998 to June 1999

Rent Officer

Assessing rents for regulatory tenants under the Housing Act. Inspections, report writing and analysis of comparable evidence

Herbert Churchman - June 1997 - June 1998

Referencer

Inspection and measuring commercial property for rating purposes. Assisting the surveyor in collecting and analysing comparable evidence for the rating assessment.

David Rowe

3rd floor, 230 Blackfriars Road, London SE1 8NW
Telephone (M): 07970766654 Email: davidrowe@tfl.gov.uk

Professional Profile

An experienced project & programme sponsor with extensive knowledge of initiating, planning & delivering complex schemes in accordance with timescales & budgets. A proven ability to develop & sustain relationships at the highest levels & to lead & motivate teams to ensure successful delivery of projects & realisation of benefits.

Key Attributes

- Good leadership, interpersonal & organisational skills.
- Proven project & programme management sponsorship experience.
- Sound technical knowledge & practical experience of developing & implementing policies, programmes & projects.
- Excellent political & local government knowledge with good communication & presentational skills & an ability to influence at the most senior levels to deliver results.

Career History

Head of Infrastructure Sponsorship, TfL

07/2015 - Present

Leading the development, consents, governance, outcome definition and benefits realisation for major projects within TfL Surface Transport, including the Silvertown Tunnel and new bus and coach facilities. Ensuring projects meet customer requirements, deliver value for money and are aligned with Mayoral policies and business priorities. Leading a matrix team of 65 people.

Head of Borough Projects & Programmes, TfL

01/2010 – 06/2015

Sponsoring a complex portfolio of TfL supported projects on borough roads, including some of London's most iconic public realm schemes such as Exhibition Road, Piccadilly Two-Way and Oxford Street. Responsible for a budget of c.£190m per annum relating to Local Implementation Plan (LIP), Cycling, Crossrail, Air Quality, Bus Priority & Accessibility programmes. Leading & developing a team of 35 people.

Head of Travel Demand Management, TfL

08/2006 – 01/2010

Leading the delivery of one of the largest travel demand management programmes in the world. Working with businesses and stakeholders across the Capital to design and introduce innovative new measures to influence travel behaviour. Controlling a c. £30m per annum budget for project development, design & delivery. Managing a team of 20 people.

Head of Project Development, TfL

05/2003 – 08/2006

Directing the development & implementation of cycling, accessibility & public realm schemes to deliver sustained growth in the levels of cycling & reductions in casualties across the Capital. Overseeing & managing a c. £40m per annum budget. Influencing senior stakeholders to secure transport investment from third parties, such as through development opportunities.

Service Development Manager, TfL Street Management **12/2000 – 05/2003**

To critically assess the operation of the service & implement improvement programmes, including the review of schemes inherited by TfL from the Highways Agency and the development and oversight of alternative proposals for A23, A205, A40 and A406. Delivery of London's first Road Safety Plan & establishment of the London Road Safety Unit.

Transport Team Leader at L.B. Hammersmith & Fulham **1998 – 2000**

To lead negotiations on transport related to major developments, including Chelsea Football Club, White City and Imperial Wharf. To develop & implement projects and programmes to improve transport and the quality of life in the Borough, including the delivery of West Brompton station, St. Pauls Green and Lyric Square.

Education

MSc. Urban Design & Engineering – South Bank University, Civil Engineering Department

BSc. (Hons.) Transport Planning & Distribution – Plymouth University

Diploma in Management & Development

Managing Successful Programmes Practitioner – Office of Government & Commerce

3 GCE 'A' levels, 8 'O' Levels

Additional Information

Regular user of MS Office, SAP, Pathway & OGC programme and project management techniques. Good knowledge of modelling & simulation, such as Saturn, Transit, RailPlan, LTS & Pedroute. Member of the Transport Planning Society & Association of Project Management. Enjoys walking, running, tennis, football and reading in spare time.

References available on request.

Curriculum Vitae: JASON SALDANHA
C.Eng, M.Eng, MICE, MCIHT
Chartered Engineer & Project Manager
Transport Infrastructure



TRANSPORT FOR LONDON - October 2006 – Present

Senior Project Manager, Transport Strategy & Planning, Planning – Oct 2012 to present

Responsibilities:

- Project manager for Silvertown Tunnel (EFC £750m) since May 2013
- Leading large multi-disciplinary, matrix team with internal & external providers
- Leading engagement with key internal & external stakeholders
- Programme manager for Roads Task Force (up to July 2013)
- Project & Programme management discipline lead for department

Lead Manager, Surface Transport Games Team (secondment) March 2011 to Oct 2012

Responsibilities:

- Managing delivery and coordination of all Games-related Traffic Regulation Orders (TROs)
- Leading the coordination and integration of all Games traffic signing
- Technical team lead on legal matters

Portfolio & Benefits Manager, BR&P & IPD, Surface - September 2008 to March 2011

Responsibilities:

- Introduced portfolio management to TLRN improvement programmes (£25m/yr) and then across all BR&P programmes (£200m/yr)
- Championed portfolio and benefits management within Surface Transport.
- Established portfolio monitoring regime with suppliers and periodic management reporting
- Organised and led annual delivery planning review and forward planning

Principal Engineer Development Control, RND, Streets - October 2006 – September 2008

Responsibilities:

- Supervised input to multi-modal transport impact assessments on large developments including management of specialist consultants
- Managed informal and formal responses to planning consultations affecting the TLRN and SRN in Central London (10 boroughs)
- Led negotiation on highway and traffic mitigation for TLRN/SRN in liaison with Land Use Planning.

HERTFORDSHIRE COUNTY COUNCIL, ENVIRONMENT DEPT. – Sept 2002 to Oct 2006

Programme Manager, Hertfordshire Highways

Responsibilities:

- Responsible for managing highway improvement programme for a third of the County and coordination of all highway activity in partnership with term consultants and contractors.
- Highways development control function including responses to planning consultations, negotiation of legal agreements and project management of developer-funded improvements.
- Responsible for overseeing the business support team for an area office with 70 staff.

MOUCHEL CONSULTING LTD., HERTFORDSHIRE - May 2001 to Sept 2002

Principal Engineer, Sustainable Transport Projects

Responsibilities:

- Managed provision of transport planning, engineering design, consultation, and construction supervision services under public sector consultancy contract.
- Responsible for technical and financial assurance.

Career Summary pre- May 2001:

Public and private sector experience on a variety of transport and civil engineering projects, developing technical skills and knowledge of planning, design, consultation and construction:-

- **April 1996 to May 2001 - HERTFORDSHIRE COUNTY COUNCIL, ENVIRONMENT DEPT Senior Engineer, Sustainable Transport Projects Unit**
- **Feb 1994 to April 1996 - STAFFORDSHIRE ENGINEERING CONSULTANTS - Section Engineer, A50 Improvement, Stoke –on-Trent**
- **Sept 1991 to February 1994 - HOWARD HUMPHREYS & PARTNERS - Senior Assistant Resident Engineer, M5 Widening Junction 6 TO 8**
- **July 1987- Sept 1991 - SIR WILLIAM HALCROW & PARTNERS - Assistant Resident Engineer & Design Engineer**
- **April to Sept 1986 - BIWATER CONSTRUCTION - Assistant Site Engineer**