



Design once, engineer right

Highways



**Tony Gee**

Consulting Engineers

# Design once, engineer right

Our work is always the best it should be, anticipating challenges and revealing possibilities, avoiding waste and better serving the needs of society and the environment – for today and the future



Ely Southern Bypass

## Tony Gee and Partners

Tony Gee and Partners is an owner-managed business which focuses on civil, structural and geotechnical engineering and infrastructure design services. Founded in 1974, we are a multi-award winning firm which has a reputation for providing high-calibre, complex and innovative engineering solutions, with a particular flair for the unique and challenging.

We have offices throughout UK and internationally and have established, world-leading capabilities that can deliver solutions at a global level, whilst recognising the needs of local clients and communities.

Our reputation has been built through the delivery of creative solutions and alternative design that always embrace buildability, coupled with the employment of modern and sometimes unique construction methods and techniques as well as the effective use of materials. Our approach is always to work alongside our clients to identify robust, combined solutions, designing both permanent and temporary works together, focussing in particular on the integration of design with construction that delivers cost, time and material resource savings.

### Sectors



Highways



Rail



Marine



Power and Energy



Aviation



Industrial



Commercial



Education



Health

### Our key differentiators and USPs:



**Collaborative** – Experience in working with clients and contractors on complex projects for many years



**Flexible** – Flexibility and responsiveness in service delivery



**Experienced** – Expertise and experience in infrastructure design including, value engineering, construction methodology and design integration



**Sustainable** – Substantial design and technological resource



**Understanding** – Understanding of construction risk in the design process methodology and design integration



**Technical** – Highly experienced technical teams exercising regular peer review



"A firm which has carved out a strong reputation as a provider of technical maestros who can sort out any complex construction challenge"

New Civil Engineer Magazine



Sheik Jaber Al Ahmad Al Sabah Causeway Project (Doha Link)



# Our Culture

## Designing for a sustainable future

Sustainability has become a cornerstone of our work. We embrace all the services that are now demanded by client organisations and projects and retain in-house capabilities in sustainability, digital delivery, carbon, social value and whole life costing. We are an accredited carbon neutral organisation.

For the highways sector we have aligned our projects approach to National Highways' goals of sustainability development.

## Simply Safe

Simply Safe is our cultural approach to safety and the well-being of people and is woven throughout everything that we do. We value technical excellence - inviting and tackling the hardest engineering challenge but always with a deep commitment to our civic duty to protect our people, our industry colleagues, and the wider public from harm. We can make safety simple by planning ahead, designing right first time, and considering the whole life-cycle of every project.

## Giving something back

At Tony Gee we take pride in giving back to communities. Whether this is for the contributions we make to charity and good causes or for the engagement in wider industry and local community activity that we support our staff to make. We empower them to make a difference.

## Our people make us

We are a business of people. Our size allows us to maintain our values and culture through simple lines of communication and to be able to remain flexible and responsive to changing demands. We employ highly qualified and experienced staff and develop them through progressive training programmes to develop the broad range of skills across all disciplines that we have built our reputation on.

Our highly experienced senior staff all work at the front line of design work ensuring that clients always get the benefit of their knowledge and that this is passed on through the business.

We value our people and our industry colleagues, their physical and mental health and their wellbeing and always look to continuously learn and improve. We value our people and our industry colleagues, their physical and mental health and their wellbeing and always look to continuously learn and improve.





# Tony Gee in the Highways Sector

Tony Gee's experience in the highways sector ranges from major capital projects on strategic road networks to local active travel infrastructure across the UK and around the world. We have experience of a broad range of delivery models from alliancing and partnering to highly collaborative design and build arrangements.

## Buildable, Value Driven Highways Solutions

Our culture centres on delivering our promises to clients focusing on buildability, value driven collaborative decision making and technical excellence to achieve predictable project outcomes. Whether it be a major highway or a local asset repair, we combine our permanent infrastructure and temporary works expertise to deliver genuine value by design.

## Digital Highways

Our commitment to 'right first time' is underpinned by our investment in digital on all our projects. The digital twins we develop yield tangible value to our clients through digital rehearsal and planning mitigating challenges in the virtual space off critical path, not on site. Digital rehearsal is key to truly delivering safe, value driven, sustainable, buildable designs and avoiding unbalanced reactive changes during construction.





# Our Highways Expertise

## Design and engineering services...



Highway structures design



Preliminary design for planning



Detailed design for construction



Digital twins and visualisations



Temporary works and traffic management design



Design checking



Construction support



Sustainable drainage design



Permanent highway design



Feasibility studies and business case development



Carbon fibre bridge strengthening



Earthworks and ground improvement



Contaminated land



Asset inspection and assessment



Expert witness



Works examiner



## ...and where we apply them



Strategic roads



Trunk roads



Local authority roads



Residential and commercial development



Local networks and urban realm



Structures and highways asset renewal and enhancement



Active travel infrastructure



Port infrastructure



Wind and solar infrastructure



Network earthworks management



# Strategic Roads



Sheikh Jaber Al Ahmad Al Sabah Causeway Project (Doha Link)

Tony Gee has been actively delivering highway design for over 20 years across a range of strategic and principal road schemes. Our primary route to market has been through contractor clients in competitive design and build settings and we have embarked on progressive alliance models embracing industry leading collaborative behaviours. Through these engagements which contractors we now have routes to market with local authorities and developers.

Our project experience has grown to include schemes such as the \$600m Sheikh Jaber Al Ahmad Al Sabah Causeway Project (Doha Link) to Kuwait for contractor GS Engineering to the A585 Windy Harbour to Skippool Improvements scheme for National Highways under their flagship Regional Delivery Partnership Framework.

We understand the imperatives that drives these clients as well as their high expectations for quality, value, and sustainability. Delivering on our commitments rests at the cornerstone of everything that we do whilst remaining adept at realising excellent engineering in concert with planning and stakeholder requirements.



M74 Port Eglinton Viaduct



A585 Windy Harbour



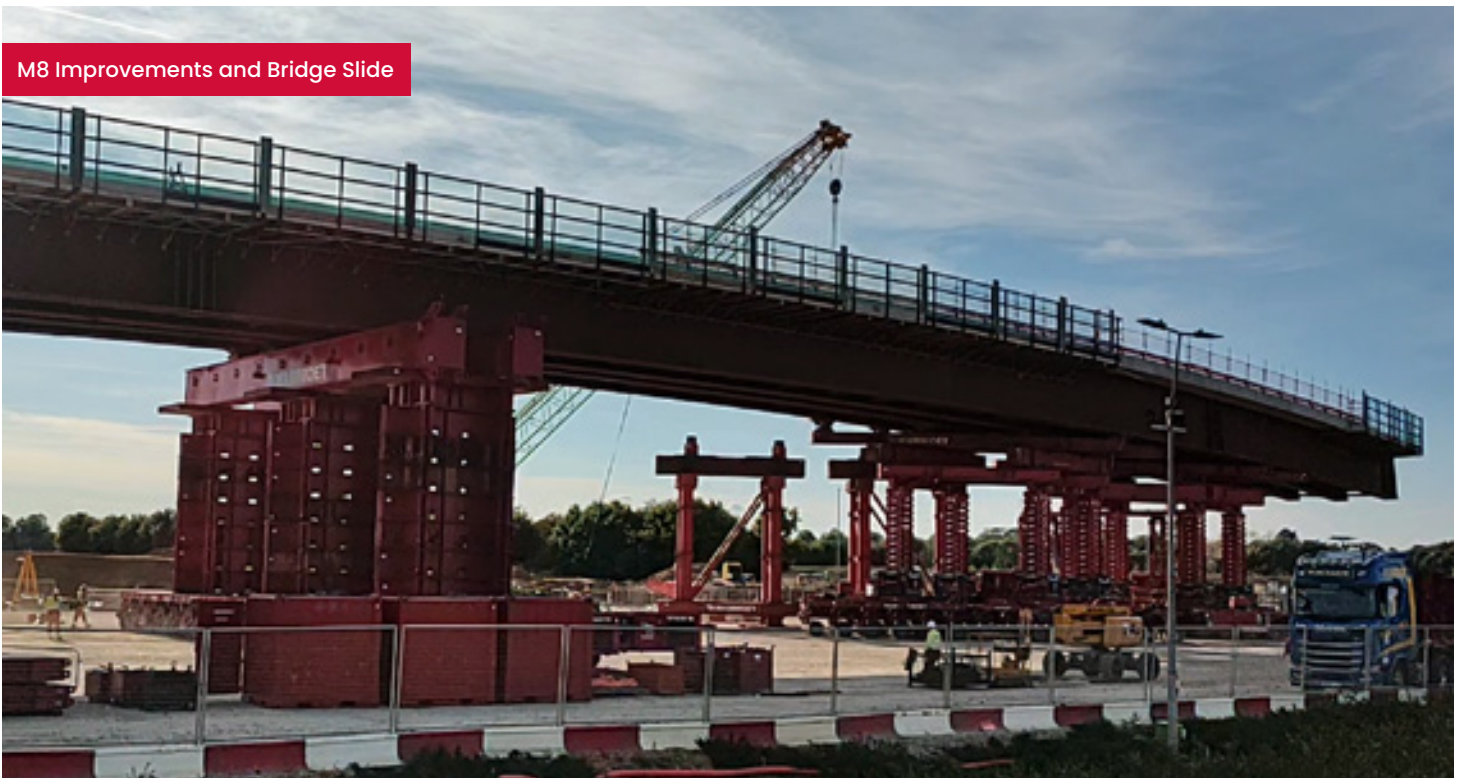
A453 Widening



M1 Junction 10A Improvements



M8 Improvements and Bridge Slide





# Trunk Roads



A82 Pulpit Rock

Trunk roads, provide some of the most challenging projects for those procuring or delivering them. Tony Gee's extensive experience and knowledge simplifies scheme delivery for all parties. Supporting both contractors and asset owners.

Over and above efficient design we also include buildability and sequencing of scheme delivery to add value.

This is very relevant to not only new highway links connecting growth corridors, but also complex junction works.

Our engineering excellence, pragmatism and environmental respect deliver award winning solutions. All with taking account of commercial, societal, and planning constraint



A985/A876 Kincardine Eastern Link Road



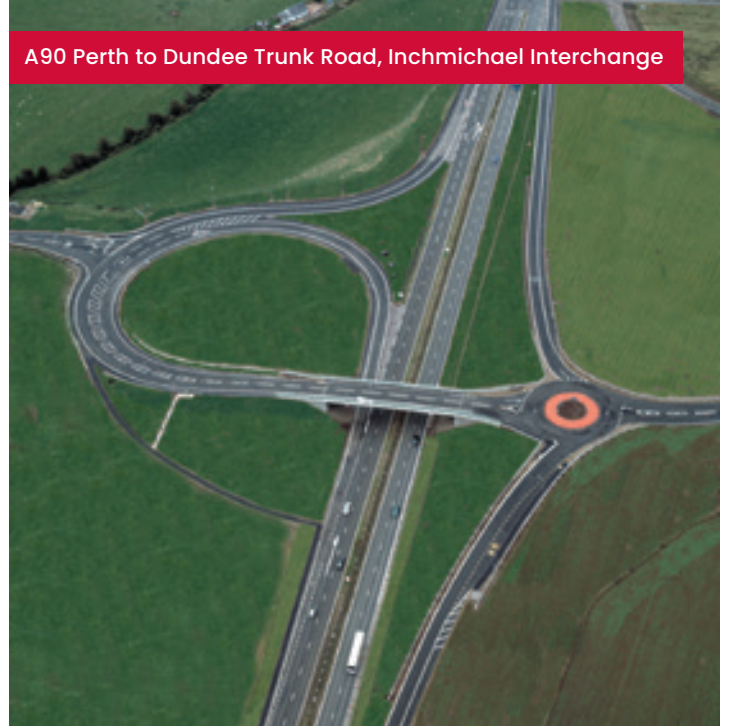
A77 Symington to Bogend Toll



A80 Auchenkilns Junction Improvement



A90 Perth to Dundee Trunk Road, Inchmichael Interchange



A361 North Devon Link Road



A77 Haggstone to Glen App Improvement





# Local Networks and Urban Realm



A142 Ely Southern Bypass

To deliver successful local road network and urban realm projects Tony Gee collaboratively joins in-house and partner specialists to offer the broad range of planning, environmental, stakeholder and engineering services required.

We understand that local authority and urban projects have great meaning to the communities they serve so we work with our clients to engineer solutions which embraces stakeholder and community needs, minimise disruption during delivery and maximise benefit upon completion.

We are experts in deploying digital solutions such as visualisations and virtual reality simulation to enable inclusive access to information throughout the design process, as well as informing technical review process and digital rehearsals ahead of construction.



A259 Improvements



Coulsdon Town Improvement



Warrington Western Link Road



Crawley Eastern Gateway



Green Lane and Hawse Lane Improvements





# Development Infrastructure



At the heart of any development is the infrastructure needed to provide access, connectivity and the services required for its purpose whether that is for the growth in ports, airports, commercial and industrial or garden towns and villages.

Tony Gee has the ability to facilitate a fresh approach to delivering buildable design in these types of environments providing solutions for roads, sustainable urban drainage, structures, active travel, earthworks that meet the project and client aspirations.

We can offer an integrated approach covering all aspects of the engineering, planning and environmental services from concept and master-planning through to delivery and commissioning.





Northampton University Infrastructure



DP World London Gateway



Burgess Hill-Eastern Link Road & Bridge Works



Arlesey Footbridge





# Structures and Highways Asset Renewal and Enhancement



Tony Gee's reputation has been founded, in part, on identifying and developing clever and innovative solutions. Our ability to generate ideas and evolve them into workable schemes is second to none. This is the value that we offer to highways renewals and enhancement where minimising disruption to the travelling public is a vital component to any scheme.

The UK's road network is maturing and much of it is now in need of refurbishment, rehabilitation or renewal. We have decades of experience and expertise, much of it honed in the transportation sector, which allows us to apply broad and lateral thinking to this type of work.

Our engineers work across all sectors and bring best practice across all infrastructure disciplines from live working environments not just desk top study solutions.





A52 Clifton Bridge Strengthening



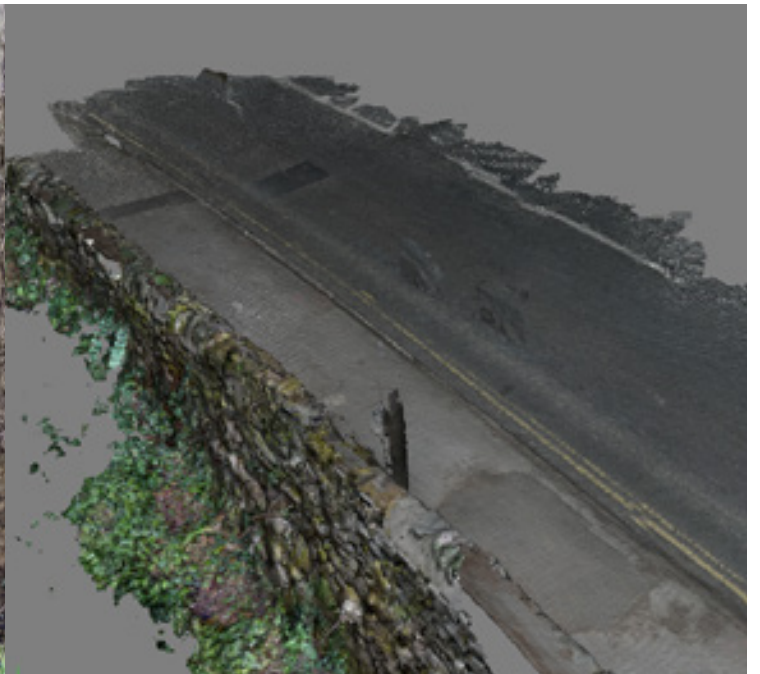
Maerdy landslips



St Albans Bridge



A6 Slope Stabilisation Including Heritage Walls





# Constuction Engineering and Temporary Works



Bahrain US Navy Bridge

At Tony Gee we pride ourselves in delivering buildable outcomes. That means that constructability is at the centre for all aspects of our permanent works design.

With Tony Gee, temporary works are integral to our design solution. These focus on project outcomes, increasing programme certainty and reducing project risk. Temporary works design and construction methodology can also be provided as stand-alone services. Adding considerable value to construct only projects not just design and construct projects.

This can be delivered in early stages pre-construction or later, during construction.

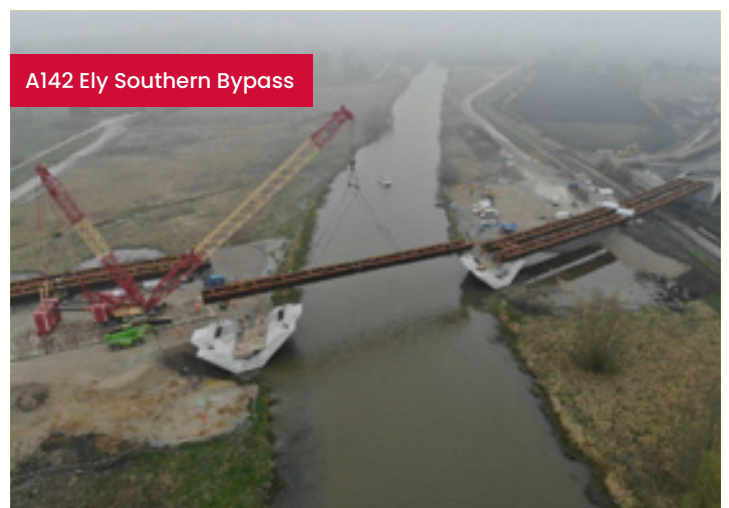
We complement our advice with our world class technical expertise in a broad range of areas including:

- Traffic diversions
- Construction sequencing
- Re-engineering to improve constructability
- Combining temporary and permanent works design
- Checks of structures in temporary conditions
- Falsework and formwork
- Earthworks stability
- Bridge erection equipment

We relish any challenge that clients invite us to solve.



A50 Growth Corridor



A142 Ely Southern Bypass



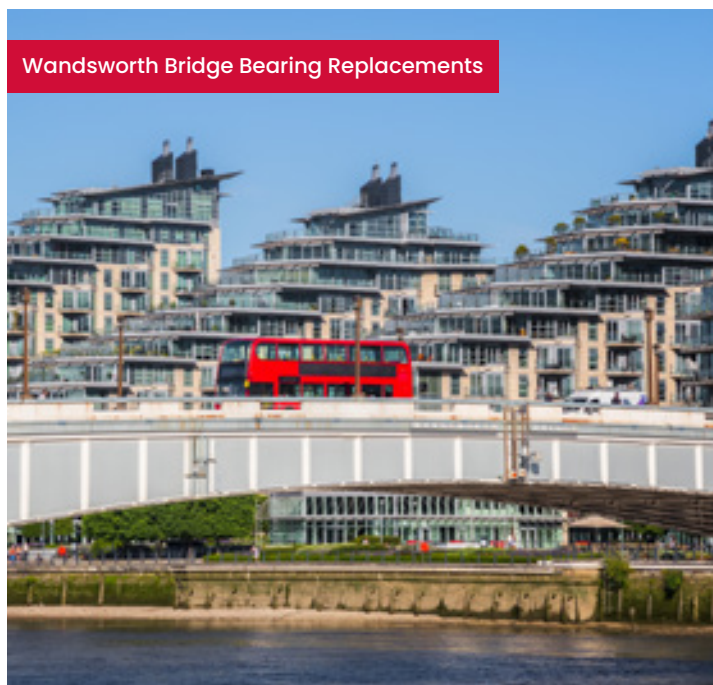
Orlando Street Bridge



Sydney Road Bridge



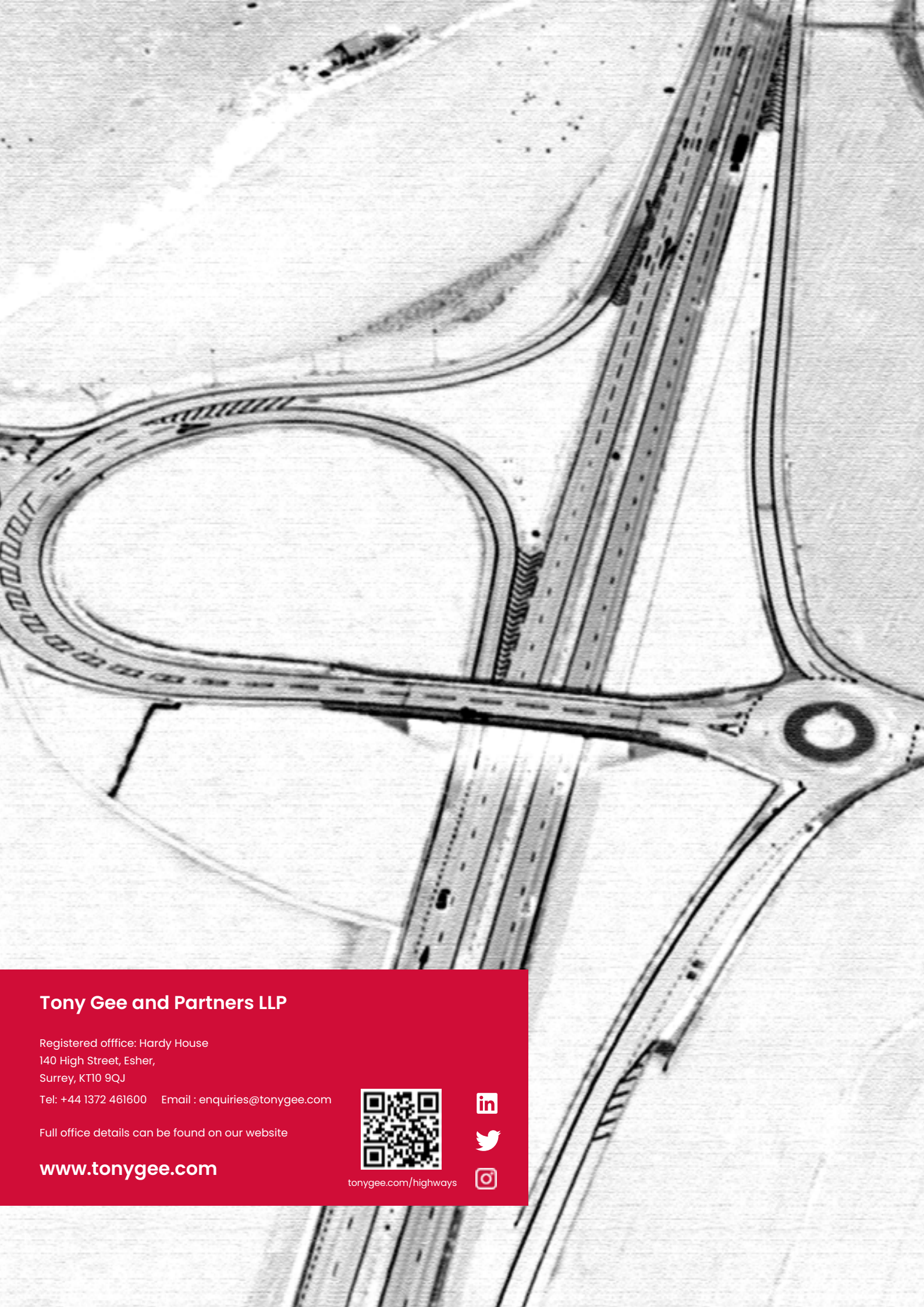
Wandsworth Bridge Bearing Replacements



Luton DART







## Tony Gee and Partners LLP

Registered office: Hardy House  
140 High Street, Esher,  
Surrey, KT10 9QJ

Tel: +44 1372 461600 Email : [enquiries@tonygee.com](mailto:enquiries@tonygee.com)

Full office details can be found on our website

[www.tonygee.com](http://www.tonygee.com)



[tonygee.com/highways](http://tonygee.com/highways)

