

# BARDON CONTRACTING



Safe, reliable and sustainable solutions to highway and infrastructure services.

# National Business

## Local people

Over the last ten years Bardon Contracting has grown into one of the highway service industry's largest and most dynamic businesses, pioneering developments in safety, sustainability and whole life quality which benefit not only the end users but also our clients and the industry as a whole.

We've reached this point by bringing the strongest regional and national businesses throughout the UK into our ranks. We deliver every contract with the special local knowledge it requires and the same high quality our clients have come to expect.

At Bardon Contracting we are constantly seeking ways we can create added value by going beyond standard industry practice to find innovative solutions to reduce costs and improve sustainability. We always aim to provide you with complete flexibility and choice throughout the design and tender stages as well as during the operation itself.

This is accomplished thanks to the synergies created by the extensive range of capabilities derived from our position within Aggregate Industries and the superb specialist knowledge we have gained through years of getting it right first time.

### Highways Services

We have decades of experience in delivering the highest quality pavement solutions and can often create savings through alternative design or construction methods.

### Civil Engineering

Our civil engineering team provide support and resources to our highways contracts enabling full construction, whilst still servicing urban and airfield construction projects nationally.

### Traffic Management

These specialists ensure UK wide highway construction safety by installing and maintaining essential temporary traffic management systems.

### Mobile Material Production

The on site production of bound materials, along with their installation, provides our clients with a truly local construction alternative.

### Aggregate Industries Limited

Our parent company is an international aggregate, construction and building materials group, based in the UK, and was incorporated into the Swiss Holcim Group in April 2005.

The Group has leading regional market positions in the UK, as well as operations in the Channel Islands and Norway.

Following a number of acquisitions, including Foster Yeoman, Aggregate Industries is a major producer and supplier of primary, secondary and recycled construction aggregates, asphalt, ready-mixed concrete and precast concrete products.

Trading under the Bardon, Bradstone, and Charcon brand names amongst others, the company has a strong reputation among contractors, clients, stockists, and small businesses, for creating a better built environment.

#### Images

##### Cover

Night surfacing on the M1

##### Opposite

Taking delivery in Slip End, Luton

##### Bottom left

Otterpool Promenade, Liverpool

##### Bottom second from left

Glynn Valley, Cornwall

##### Bottom second from right

Churchgate, Bolton

##### Bottom right

Birmingham Airport





The ability to utilise the resources and capabilities of all of Aggregate Industries is key to our success.

# A commitment to your needs

As one of the nation's leading surfacing contractors and strategic supply chain partners Bardon Contracting consistently provides high quality construction services to clients in both the public and private sector. Through early involvement in a contract we are able to provide innovative design solutions and consult on wider aspects of the project such as traffic management and sustainable construction alternatives. This consultation process is the key to our delivery of a unique service which meets your every need.

## Highway Surfacing

Our extensive resources are spread throughout Britain, operating from ten regional offices. Each office has its own depot and dedicated teams of operatives capable of servicing multiple contracts throughout their region.

We possess the necessary flexibility to undertake long term frameworks alongside regional individual spot projects.

Each regional business has an approved supply chain developed through the establishment of long term relationships which have consistently delivered quality projects. Each supplier is assessed annually as well as after each project to ensure they meet our stringent standards for safety and quality.

### Key services in this sector include:

Major Highway Maintenance; Urban and Rural Highway Maintenance; Design and Build Construction; Airfield Construction/Maintenance; Term Maintenance; Car Parks.

## Civil Engineering

We have an excellent team of civil engineering operatives and resources which support and improve our highway service provision and undertake further construction projects within the urban and airfield sectors.

We utilise the highest quality in-house products and resources to provide the best value and quality to the client, creating industry leading sustainable built environments throughout the UK.

Aggregate Industries businesses such as Charcon and Bradstone and its ready-mixed concrete companies enable the firm to provide innovative and unique product solutions, as well ensuring excellent supply chain control.

### Key services include:

Minor Structures; Hard and Soft Landscaping; Utilities; Public Realm; Airfields – Civil Engineering; Section 278 Agreements.

## Associated Services

It is always our intention to service every need of our clients, and in order to achieve this we have developed the capability to perform a number of associated specialist functions in-house. These include:

- HAPAS approval to lay high friction surfacing (anti-skid)
- Pavement coring for quality assessment and technical purposes
- Saw cutting and diamond drilling specialists who support our supply chain partners as well as providing services to our surfacing division
- An internal ground probe radar team who thoroughly assess each of our sites for underground risks and unstable ground conditions
- Guillotines and trained operatives for crack and seat highway refurbishment on concrete carriageways.

## Images

### Opposite

Highway surfacing in Glencoe, Scotland

### Bottom left

Public Realm works in Leicester's cultural quarter

### Bottom second from left

Constructing a hard standing for a car park in Perry Barr, Birmingham

### Centre

Laying HRA in Slip End, Luton

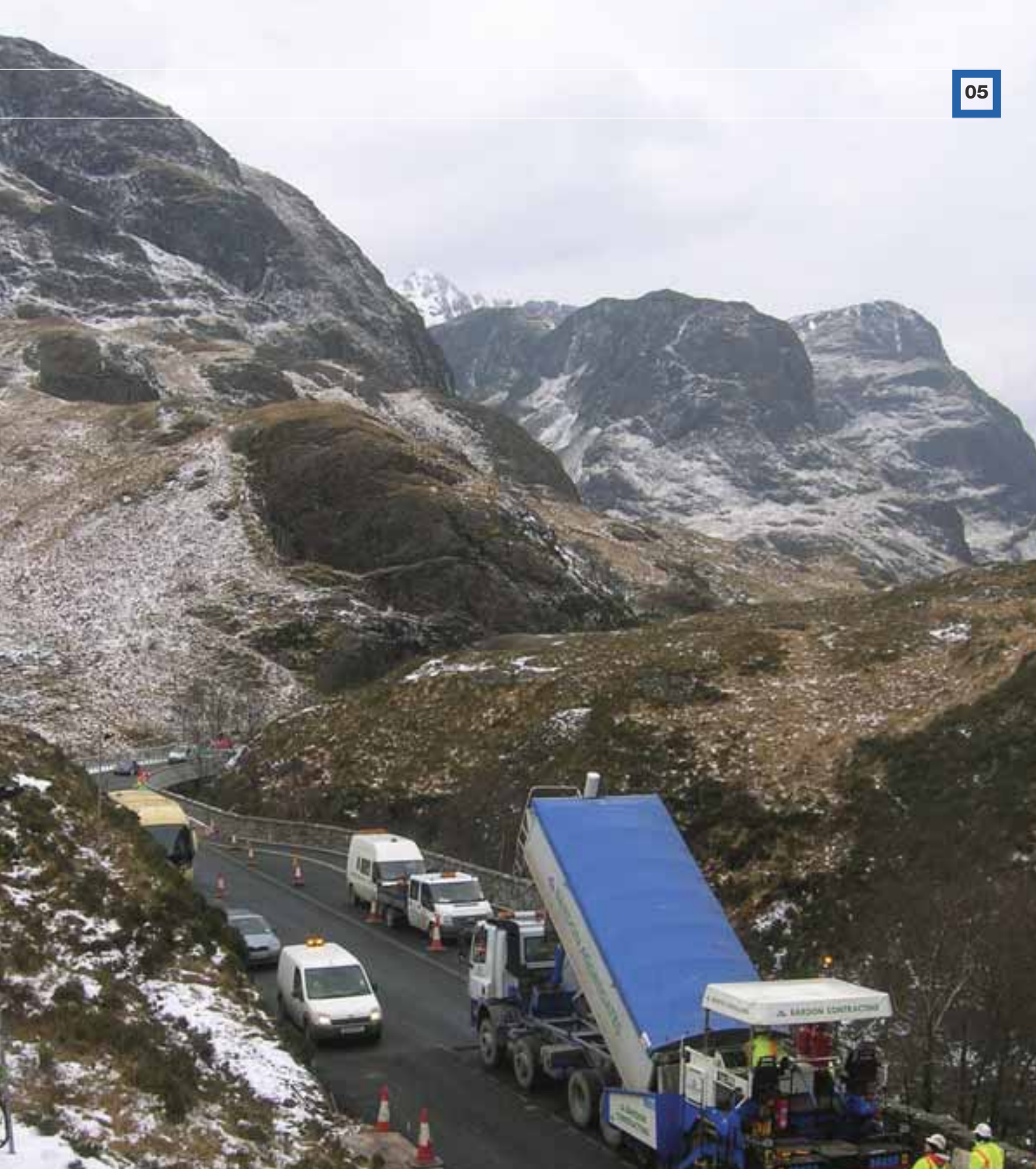
### Bottom second from right

Re-surfacing the taxiway at Birmingham Airport

### Bottom right

Resurfacing footways on the Knoydart peninsula, Scotland





With over 70 years' experience in providing the highest quality highway construction and civil engineering solutions for a wide range of clients, you can be certain that Bardon Contracting is committed to your needs.



# Commitment to delivering excellence

Alongside our contracting resources we also operate two specialist businesses, each a leader in their chosen discipline. These provide support and consultation to the wider business as well as providing their services direct to the open market.

## Moxon Traffic Management

As a founding member of the Traffic Management Contractors Association and Sector Scheme 12 a, b and d accredited, Moxon Traffic Management is one of the largest traffic management providers in the UK. It prides itself on the way it delivers traffic management solutions and remains at the forefront of innovation within the industry.

It has extensive experience in providing temporary traffic management to large regional frameworks, significant highways schemes and smaller short term regional maintenance contracts.

It is also able to provide extensive consultation at the design and programming phase, including the use of 3D imaging to map traffic flows to determine the optimum traffic management layout for each phase of a project.

Its key services include the design implementation, installation and maintenance of temporary traffic management, including temporary barriers, CCTV, vehicle recovery and speed enforcement. It has also developed the capability to provide training in Sector Scheme 12.

## Bardon Composite Pavements

A specialist in the on-site production and laying of sustainable hydraulically bound materials including: Cement Bound Granular Material (CBGM); Roller Compacted Concrete (RCC); Fly Ash and Slag Bound Materials (FABM/SBM) and Bentonite Enriched Soil (BES).

With the ability to produce bound materials using site won or reclaimed aggregates, re-crushed concrete or tar bound material, Bardon Composite Pavements can significantly improve the sustainability of a project including:

- Reducing the use of virgin aggregates
- Lowering vehicle miles (and therefore CO<sub>2</sub> and equivalent emissions) by batching the material on site
- Creating significant reductions in the volume of waste sent to landfill
- Transforming carcinogenic tar bound waste into a usable bound material.

Bardon Composite Pavements possesses the largest fleet of Titan ABG heavy duty pavers in Europe. Which, with their modified screeds, are capable of laying material up to 12m wide and 300mm thick in a single layer.

Its mobile batching plants have been modified by its skilled technical team to provide significantly increased outputs while ensuring all material is of a consistently high quality.

These versatile internal resources allow the company to provide complete flexibility to the client in both mobilisation time and programme duration, consistently achieving output volumes which create savings for the client.

Through its skilled technical department it is able to provide consultation on all aspects of each project, from material specification to construction design characteristics which meet the individual requirements of the scheme.

## Images

### Opposite

Setting out a closure on the M1

### Bottom left

Traffic management on the M5

### Bottom second from left

The plant loads batched material into a dumper truck

### Bottom centre

Laying the RCC layer on a hard standing for an Olympic logistics centre on the M11

### Bottom second from right

Laying CBGM in the construction of a new highway in Cashel, Ireland

### Bottom right

Cutting joints on a new highway in Ireland using our patented equipment





Our specialist divisions will work alongside your project team to identify and maximise potential savings through innovative service delivery.

# Responsible

## in everything we do

Bardon Contracting has set itself strong goals for safety and sustainability which we can only achieve by driving improvements throughout our business, and with the full co-operation of our supply chain and clients. We have done this because every employee within our business believes that we can achieve these goals, and that anything less would be unacceptable.

### Safety

Throughout our business we have established a deeply embedded safety culture, focusing on the single idea that no-one's health should be put at risk by what we do.

We have detailed procedures in place for communicating safe practice and potential risks, including a 'Near Hit Hotline' which employees can call 24 hours a day to report any potential incidents which occurred on their sites.

All incidents and significant near hits result in a 'Safety Pause'. This involves the entire business stopping work and listening (by phone conference) to a live briefing by our Managing Director. This briefing explains the event, its implications to the wider business and what steps can be taken to mitigate the risk of reoccurrence.

The senior management team, alongside external specialists, also deliver regional annual safety road shows. These involve a full day of presentations to every employee covering our safety performance for the previous year and how we can improve as a business.

We regularly revise our PPE provision based on our understanding of the risks within our operations. For example, during 2005 our incident analysis identified a trend of upper foot injuries. To prevent these we replaced all safety boots in the business with boots featuring specific metatarsal protection. This action almost completely eliminated upper foot injuries. After discussion with our operatives we have since introduced a modified boot which provides improved flexibility.

### Sustainability

Bardon Contracting, as part of Aggregate Industries, has sustainability at the core of its business strategy and has developed a wide range of approaches to sustainable construction. These include:

- The material production methods used by Bardon Composite Pavements (who regularly use site won and reclaimed materials)
- Our use of state of the art machinery to maximise energy efficiency with minimal emissions
- Throughout our business we measure emissions, energy usage

and waste as part of our key performance indicators. This has also been adopted by some of our key supply chain partners, enabling further savings

- The use of mobile asphalt recycling plants to recycle existing asphalt surfacing into a new base and binder course for footways and minor highways.

We always take a responsible approach to the consumption of resources, and Aggregate Industries has been awarded BRE BES 6001 and certified as a responsible source.

Our position as a contractor and manufacturer enables us to consider the impact of our projects in terms of the whole life of the products used, from initial quarrying right through installation and beyond.

Every project we undertake is thoroughly assessed for its short and long term environmental impact. This allows us to put in place controls which not only protect the environment now, but also protect future generations.

### Images

#### Opposite

The final planting completed on the A38 Glynn Valley

#### Bottom left

Specially designed waste bins installed in Northampton

#### Bottom second from left

One of our senior managers delivering a safety briefing

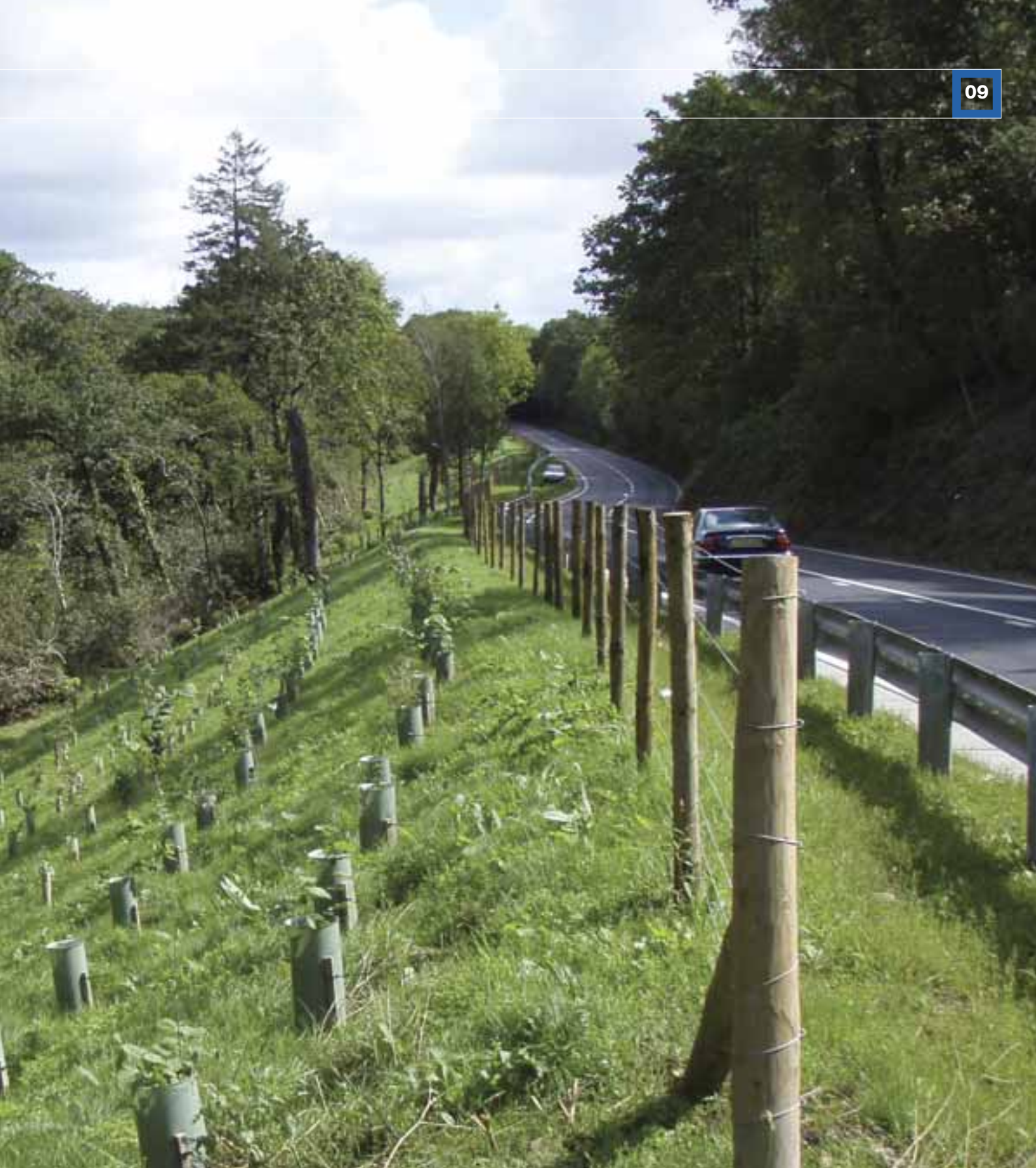
#### Bottom second from right

One of our traffic management operatives working in full PPE

#### Bottom right

Transporting materials using our dedicated rail heads





Our scheme on the A38 in Glynn Valley was awarded the ‘Golden Apple’ by the Green Organisation, as well as the ‘Sustain’ award in the category for ‘Property and the Built Environment’ from Sustain Magazine. Both of these awards recognised our work towards minimising the environmental risks posed by the project and the innovative solutions we provided based on our detailed consideration of the final post-completion habitat.

# Resourcefulness

## is the key to true innovation

Bardon Contracting fosters innovative thinking throughout our business, using the knowledge and skill of our employees to help create innovative solutions to problems in the industry, at the same time as finding ways to improve the long term quality and sustainability of our projects.

We accomplish this through a number of means; some which focus on developing new products through technical research, and others which seek simply to tap into the wealth of experience and understanding contained within our skilled employees.

### Researching Success

Our dedicated research and development team, made up from academics, engineers and technicians from a number of countries, regularly provides the business with innovation in both the processes and technology used in our projects as well as the products we use in constructing them.

Based out of our research laboratory at Hulland Ward, this 'centre of excellence' is devoted to researching all aspects of asphalt, concrete and recycling within our industry. These developments are approved and verified in partnership with other centres of excellence such as the Waste Resources Action Programme (WRAP), Scott Wilson Pavement Engineering (SWPE), Nottingham University and the University of Ulster.

### Superflex Asphalt

With a single-layer thickness of up to 100mm, this product can eliminate the need for separate binder and surface courses. This saves time and also paving machine fuel consumption by up to 50%. The material also provides whole life savings through its increased durability; to support this we offer a ten year guarantee on the texture (SCRIM) of the final surface.

### Asphalt produced at lower temperatures\*

By using a number of technologies we have developed a superbly versatile new asphalt. This product not only substantially reduces the amount of CO<sub>2</sub> produced in its manufacture, but also emits almost no fumes, making laying the material significantly easier and ensuring no inconvenience to the local community or our employees.

### Innovation through design

By involving Bardon Contracting in a project at the design stage, a client can benefit from the extensive specialist knowledge each member of our commercial team possesses, as well as gain access to the additional technical managers from each of our associated businesses in concrete, asphalt, aggregates, building materials and precast structural products.

By advising on all aspects of the construction, we are able to help our clients achieve their long term goals for the project; such as increased sustainability through the use of recycled materials, or whole life quality through the use of longer lasting materials.

Our involvement gives a client access to the full supply chain through one contact, which simplifies the whole process whilst still providing significant best value in the project.

### Images

**Opposite**  
SUDS being installed in Cambridge

**Bottom left**  
Our mobile asphalt recycling plant in Bedfordshire

**Bottom second from left**  
Framework community meeting to identify design savings at ECI stage

**Bottom second from right**  
Laying specialist coloured asphalt in the Emirates Stadium

**Bottom right**  
K-lite kerb installed at East Midlands Airport



\*Currently available in selected locations only.



Specialist products have been developed throughout our range of surfacing options including asphalt, concrete and block paving divisions for our Sustainable Urban Drainage System (SUDS). The resulting flexibility of the system means every installation can be completely unique, and our skilled technical staff will always work closely with you to ensure your system achieves your goals.

# Quality

## in everything we do

At Bardon Contracting we recognise that ‘none added value’ processes and every potential defect can create significant costs to our clients, the community and the environment. To ensure complete control of our operations we have adopted a lean approach throughout the business.

Every aspect of our business process, from initial consultation to installation and maintenance, minimises the risk of defects occurring and reduces potential wastes generated. We accomplish this using our accredited Integrated Management System to manage and understand our operations, supported by a strong business-wide focus on getting every task right first time.

### Management and Control

All Bardon Contracting operations are undertaken within the framework on our Integrated Management System. This system ensures a consistently high quality service through the structured ownership and management of every stage of each project.

It provides easy accountability and communication throughout the contract by clearly identifying the key processes and the individuals responsible for coordinating them.

For every contract we promote a ‘community’ ethic amongst our supply chain partners, ourselves and the client. This approach improves communication and enables the project management team to identify synergies in procurement and delivery which add value.

### Monitoring Performance

Our detailed understanding of our business enables us to effectively identify and implement business improvement.

To ensure we have up to date and relevant performance information we maintain and monitor our business based on a series of performance indicators, aligned with the critical factors necessary for the successful delivery of our clients’ requirements.

We publish the information through a series of ‘traffic lights’, benchmarking our own performance against relative industry information.

By understanding and recording performance information and sharing it with our clients, we are able create an open and transparent working relationship, allowing us to collaboratively manage each contract and develop savings based around our mutual goals.

### Continuous Improvement

At Bardon Contracting an embedded culture of continuous improvement has grown around our commitment to meet and exceed the requirements of our clients. We utilise our internal and external resources to identify the most effective improvements to our service.

Through Aggregate Industries, we possess production and supply capabilities to support our experienced teams through our strategically placed dry stone quarries, ready-mixed concrete and coated macadam plants, recycling facilities and civil engineering precast concrete product plants.

Using the unique wisdom of these internal resources alongside our technical staff within our Research and Development facility, we strive constantly to improve not only the quality of our direct service but everything about our business.

This culture is driven and communicated by our national Performance Improvement Team, which is supported by local champions who consult and represent the employees of each regional business.

### Images

**Opposite**  
M1 Junctions 25 - 28

**Bottom**  
Accreditations received  
by our Integrated  
Management System



Certificate No. EMS67415



Certificate No. FS 00800



PAS 99  
NR517652



OHSAS 18001  
OHS 97416



For the widening of the M1 between Junctions 25 and 28 we were able to provide the client with a fully integrated highway service. Including: detailed design consultation for both pavement construction and traffic management; high volume asphalt surfacing delivered under 24 hour working; installation and maintenance of traffic management (including CCTV, speed control and vehicle recovery) and the supply of coated material including our own Hitex surface course.



# Aggregate Industries

## The complete service

Bardon Contracting uses products and resources from companies within the Aggregate Industries Group.



### Aggregates

Bardon Aggregates supplies crushed rock, sand and gravel and fill materials. These can be delivered by road, rail or marine transport.

**Tel:** 01455 285 200

**Email:** [midlands.sales@aggregate.com](mailto:midlands.sales@aggregate.com)



### Structural Products

Precast concrete solutions for structural applications, including precast stairways, retaining walls, flood defence, street furniture and service protection.

**Tel:** 01226 779 092

**Email:** [sales@precasthq.co.uk](mailto:sales@precasthq.co.uk)



### Asphalt and surfacing materials.

Bardon Asphalt is a leading supplier of a full range of coated materials with over 50 locations in the UK, serving major conurbations, including Express Asphalt sites for collect business.

**Tel:** 01455 288 222

**Email:** [midlands.sales@aggregate.com](mailto:midlands.sales@aggregate.com)



### Hard Landscaping

Charcon flag paving, block paving and kerb products are available in both concrete and natural stone. Surface water drainage and SUDS are also part of a wide ranging product portfolio.

**Tel:** 01335 372 222

**Email:** [sales.charcon@aggregate.com](mailto:sales.charcon@aggregate.com)



### Ready-Mixed Concrete

Bardon Concrete (and London Concrete within the M25) offers a complete range of ready-mixed concretes and screeds, operating from over 50 sites. The Elite Minimix operation caters for smaller collect loads.

#### Bardon Concrete

**Tel:** 01283 714 187

**Email:** [bardon.concrete@aggregate.com](mailto:bardon.concrete@aggregate.com)

#### London Concrete

**Tel:** 0208 380 7300

**Email:** [london.concrete@aggregate.com](mailto:london.concrete@aggregate.com)

For more information on these Aggregate Industries companies and products contact Bardon Contracting on 01530 510 066 or call the individual businesses.



If you have any questions  
you would like to discuss  
directly with our team,  
please do not hesitate to  
contact your local office  
on the number provided

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