



## Company Profile

Cole Easdon is one of the UK's leading civil engineering consultancies specialising in highways, transportation and flood risk assessment. We have an enviable reputation for quality, reliability and value. Our nationwide service covers all aspects of the feasibility, detailed design and implementation of major developments and infrastructure.

As an independent and expanding firm of consultants, we offer a consultancy service, providing practical and innovative design solutions for both private and public sector clients. We provide design solutions and advice for small and large-scale projects that include business parks, leisure, housing, retail; office; mixed-use; commercial; stadia; and education developments.

Established in 1985, we are a forward thinking company with a fresh and flexible approach using the latest technology and techniques wherever possible. To ensure that we maintain a comprehensive and up to date range of house skills, we are committed to ongoing training for our experienced, dedicated and professionally qualified staff.

We are used to being a dynamic part of a multi-disciplinary team and work closely with clients to ensure that the solution is compatible with their objectives. We recognise the importance of delivering quality solutions within budget often to tight timescales.

CEC offer specialist technical advice on all transportation and infrastructure related issues and take pride in our ability to identify, anticipate and deliver practical solutions.

In maintaining high standards, we are committed to quality and achieving the best value for our extensive client base.

### **Cole Easdon BMP Limited**

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## Transportation Planning

- Site Appraisal & Feasibility
- Demand Forecasting
- Highway Network Modelling
- Transportation Concepts and Urban Transport Strategy
- Public Transport Appraisals
- Quality Bus Corridor & Partnerships
- Environmental Assessment (Transport)
- Staff Surveys & Questionnaires
- Sustainable Transport Studies
- Parking Studies & Strategies
- School Travel Plans & Safe Routes to School
- Accessibility Studies
- Servicing and Delivery Strategies
- Travel Audits and Interviews
- Negotiation with local planning/highway authorities
- Journey Time Surveys
- Travel to Work Postcode/Census Analysis
- Expert Witness at Public Inquires
- Travel Risk Assessment
- Travel Plans

## Residential & Development Engineering

- Access, Parking and Servicing Layout and Design
- Residential Layout and Design
- Foul and Service Water Drainage Design using Microdrainage computer software
- Utility Enquiries & Negotiations
- Preparation of contract documents & bills of quantities
- Contract Administration & Site Supervision
- Domestic drainage and external works design
- Negotiation for Environment Agency approval
- Negotiation with local planning/highway authorities
- Advice and liaison with architectural services
- Production of cross-section drawings for sensitive sites
- Sustainable Drainage Design

## Hydrology & Flood Risk Assessment

- Expert Witness at Public Inquiries
- River & Tidal Flood Risk Assessment including:
  - Compliance with PPG25
  - Desk studies of existing flood records
  - Detailed hydrological investigations using the Flood Estimation Handbook (FEH)
  - Survey of ground levels, watercourses and hydraulic structures within the catchment
  - Computer modelling using MIKE11 computer software to identify the functional floodplain and areas of sustainable development
  - Negotiation with the Environment Agency and other drainage authorities
  - Identification and design of sustainable drainage solutions
- River Catchment Modelling using MIKE11 computer software
- Hydrological Studies using FEH
- Percolation Testing

## Traffic Engineering

- Pre-Planning Site Appraisal & Feasibility
- Multi-Modal Interchange Design
- Park-&-Ride feasibility and design
- Traffic Calming & Management Schemes
- Signage Design
- Calculation of Road Traffic Noise & Emissions
- Vehicle Swept Path Analysis using AutoTRACK computer software
- Traffic Impact Assessment
- Road Safety & Mobility Audits
- Expert Witness at Public Inquiries
- Junction Capacity Analysis
- Traffic & Parking Surveys
- Traffic Regulation Orders
- Road Closures & Footpath Diversions
- Traffic Speed Measurements
- Access, Parking & Servicing Layout & Design
- Road and Horizontal Surface Markings
- Use of TRICS; ARCADY; OSCADY; PICADY; LINSIG; TRANSYT; TEMPRO etc.
- Design of pedestrian and cycle crossing facilities

## Highway Engineering

- Expert Witness at Public Inquiries
- Detailed horizontal & vertical alignment design using PDS computer software
- Highway and Infrastructure design including roads, footpaths, cycleways, junctions and traffic signals
- Advice on Legal Agreements (Sections 38; 278; 104; 116 etc.)
- Street Lighting Design
- Ground Modelling and Calculation of Earthwork Volumes using PDS
- Utility Enquiries & Negotiations
- Preparation of contract documents & bills of quantities
- Contract Administration & Site Supervision
- Negotiation with local planning/highway authorities
- CDM Planning Supervision
- Advice on defective highway construction

## Sustainable Drainage

- Surface Treatments Design
- Sustainable Drainage Studies & Design using Microdrainage computer software
- Design of attenuation measures including surface water storage; balancing ponds; wetlands, swales, reed ponds and other filtration methods

## Contract Documentation & Cost Estimation

- Contract Administration
- Preparation of Bills of Quantities
- Site Supervision
- Cost & Budget Estimates
- CDM Planning Supervision



## Commercial / Mixed

### **Lingley Mere Business Park, Warrington**

Transport Appraisal, travel plan, access design and on-going advice relating to planned expansion of business park for a further 500,000sq.ft office development.

### **Poole Goods Yard, Dorset**

Transportation Appraisal of proposed redevelopment of existing goods yard for new railway station and public transport interchange including hotel, residential, office and retail elements.

### **St Sampsons' Vinery, Guernsey**

Transportation Appraisal and Drainage Strategy to accompany Planning Brief for 23,000sq.m industrial park to develop a major new strategic employment area on the island.

### **Kembrey Park, Swindon**

Transportation Appraisal; temporary access design, signing; new access roundabout and access road design and specification; drainage study - relating to a mixed use development comprising DIY retail, Crèche, Hotel, Family Pub/Restaurant and Health & Fitness Centre.

### **Chester Business Park**

Transport strategy to mitigate impact of 1.5m sq.ft. office development together with highways assessment.

### **Atlas Business Park, Manchester**

Transportation Assessments for major business park development adjacent to Manchester Airport.

### **Lion Plaza, Threadneedle St., London**

Prestigious office and retail development in the heart of the City. Delivery access and service area design including a capacity assessment resulting from use of vehicle lifts.

### **Birley Fields, Moss Side, Manchester**

Transportation assessment for a major new business and science park urban regeneration scheme.

### **Lydiard Fields, Swindon**

Transportation Assessment for 10,000sqm office development together with 2,500sqm Health & Fitness Centre adjacent to J 16 of the M4 motorway. Additional Highways and Transportation advice for proposed drive-thru fast-food outlet within the site. Detailed negotiations with bus operators in order to serve the site together with the provision of a new footway/cycleway to improve accessibility.

### **Walton Hospital, Liverpool**

Transportation Assessment and detailed signal analysis for the redevelopment of an existing hospital, for new build and refurbished residential whilst maintaining access for the remaining hospital functions.

### **Police Headquarters, Winsford**

Transportation Assessment in support of new Cheshire Police Headquarters building, including new access design.

### **Tarlton, Gloucestershire**

Preparation of an access appraisal relating to objection against relocated cattle market on behalf of Parish Council.

### **Innsworth Technology Park, Gloucester**

Design of improvements to existing signal junction access and Road Safety Audit.

### **Hopton Park, Devizes**

Infrastructure design for employment site on outskirts of town.

### **United Utilities, Warrington**

On-going strategic advice to client relating to car parking, travel planning and highways at HQ site, including design of temporary staff car park.

### **Patheon, Swindon**

Transportation Appraisal and preparation of Travel Plan framework relating to new laboratory building and temporary car park solution for a major pharmaceuticals company.



## Retail

### **Erith Town Centre, Bexley**

Transportation Assessment for redevelopment of an existing 1960's shopping centre to revitalise and regenerate the area. Proposals included 44 residential units over existing retail together with 2,000sqm of new retail space adjacent to a large Morrison foodstore. Study included parking assessment; traffic management; analysis of impact on surrounding highway network; re-routing of bus services & Road Safety Audit.

### **Cornbow Centre, Halesowen**

Transportation Assessment to help secure new ASDA foodstore (72,500sq.ft) and new 592-space multi-storey car park in the centre of Halesowen. CEC advised on the design of the service area, prepared a Servicing Strategy for the new development and Stopping-Up of highways.

### **Sefton General Hospital, Liverpool**

Transportation Assessment for redevelopment of former hospital site for new ASDA store. Included detailed infrastructure, signing and drainage design for S278 Agreement.

### **Northampton, Northants.**

Large-scale retail and leisure development on outskirts of town.

### **Canal Walk, Swindon**

Major town centre retail development including stopping-up procedures, S106 works, service and delivery design and management of utility diversions.

### **The Parade, Swindon**

Major town centre retail development including stopping-up procedures, S106 works, service and delivery design as well as the management of utility diversions.

### **Botchergate, Carlisle**

New retail and leisure development in historic core of Carlisle including transport network capacity assessment.

### **Prescot Street, London**

Hotel and retail development. Transportation assessment including design for service and coach and taxi parking.

### **Southport, Merseyside**

Major town centre retail development. Required to demonstrate that 600 additional car parking spaces would not increase traffic in the town centre.

### **Park-&-Ride, Swindon**

500-space Park-&-Ride with associated roadside facilities adjacent to a major roundabout junction and Trunk road.

### **Hounds Hill, Blackpool**

Transportation Assessment including an accessibility and routeing strategy for the redevelopment of an existing shopping centre, multi-storey car park and 9-screen multiplex cinema directly adjacent to Blackpool Tower.

### **Old Town Core Area, Swindon**

Transportation Assessment for a mixed retail, commercial and residential development at the heart of Old town, Swindon. The study also included drainage, signage and car parking design. Phase 2 works included detailed infrastructure, drainage and signing design together with site supervision.

### **Bangor Retail Park**

Transportation Appraisal for planned expansion of retail park.

### **Witham Town Centre, Essex**

Transportation Assessment for proposed 635-space multi-storey car park to replace poor quality surface car park adjacent to Witham railway station. Proposal included for a fast-food drive-thru facility. Study included parking assessment; traffic management proposals; re-routing of bus services; impact on branch line rail services.

### **Dursley**

Representation at local plan inquiry on behalf of Oxford, Swindon and Gloucester Co-operative.

### **The Walnuts, Orpington**

Review of access, parking and signage for shopping centre.

### **Beacon Park**

Parking and access strategy relating to planned expansion of existing retail park.



## Education

### **St Joseph's Upper and Lower Schools, Swindon**

Transportation Appraisal for new school campus combining the two schools on one site and examining the redevelopment opportunities on the other. Safe Routes to School as well as School Travel Plan for the school(s) was assessed, together with appropriate cycle/car parking provision and new signal access junction and pedestrian/cycle crossing. Access options to serve the site to be redeveloped for housing were also engineered.

### **City Literary Institute, Covent Garden, London**

Transportation Appraisal for the upgrading of one of the two existing City Literary premises for educational use, together with new office use within the other educational building. The brief included design and provision for delivery and servicing of both premises.

### **Leeds Schools**

Assessment of existing highway access and design for improved highway access and car parking provision for six schools all to be upgraded within the City of Leeds as part of a Private Finance Initiative. Safe Routes to school also formed part of the brief.

### **Westminster College, London**

Transportation Appraisal including student car parking provision as well as Travel Plan relating to change of use of office building to student accommodation.

### **Wirral College, Wirral**

Transportation Appraisals relating to all existing College Campus sites. Sustainable drainage infrastructure design formed part of the engineering brief. The role of planning supervisor was also included within the engineering brief. Travel Plan prepared for the new campus site at Birkenhead.

### **St. Wilfrid's RC School, Crawley**

Transportation Appraisal for redevelopment of part of school site for housing & School Travel Plan for new campus.

### **Great Sankey High School, Warrington**

Traffic management and accessibility advice.

### **Wigan & Leigh College**

Transportation Appraisals relating to all of the existing College Campus sites, assessing the redevelopment of the most sustainable of these for increased student numbers attending the site. Car parking provision together with Green Travel Plan objectives all considered and approved. Pedestrian routes to and from bus and railway stations as well as assessing the bus route pattern and catchment for those students transferring to the redeveloped Wigan Campus sites.

### **Royal Wolverhampton School, Wolverhampton**

Transportation Appraisal and presentation of evidence at public inquiry relating to school's proposal for new leisure complex for use by school and general public.

### **Bournside School, Cheltenham**

Transportation Appraisal together with detail design of infrastructure (road, sewers, pedestrian crossings, car park etc) relating to extension of the existing school, and also the redevelopment of part of the school land for residential development use.

### **Weymouth College, Weymouth**

Transportation and Drainage Assessments for redevelopment of existing College building for residential and office uses including development of Travel Plan. Detail design of civil engineering infrastructure together with car park design and associated off-site traffic calming measures.

### **Oasis Academy, Enfield**

Transportation Appraisal & School Travel Plan for new Academy.

### **Central School of Speech & Drama, LB Camden**

Preparation of Transportation Appraisal submitted in association with a planning application to develop part of the site for new teaching and performances spaces following rationalisation of remote school functions to a single site. Preparation of Travel Plan.

### **Sixth Form College, Swindon**

Detail design of junction access arrangements and internal roads and services to serve new College building as well as residential development on adjacent land. Flood Risk Assessment and sustainable drainage solution for the total site also formed part of the engineering brief.

### **Malory School – Haberdasher's Academy, LB Lewisham**

Preparation of Transportation Appraisal and Green Travel Framework to accompany planning application for the redevelopment of the Malory School site for a Haberdasher's Academy. Preparation of School Travel Plan.

### **St. Paul's Academy, Greenwich**

School Travel Plan for transition of existing school to new Academy at Abbey Wood

### **Oasis Academy – Hengrove, Bristol**

Transport Assessment and School Travel Plan for redevelopment of existing school for an Academy.



## Residential

CEC provide a comprehensive engineering appraisal and design service for both local and national house-builders. Appraisal includes drainage feasibility; access arrangements; and transport links. Design incorporates advice on layouts; access roads (horizontal and vertical design); parking zones; traffic calming features; domestic drainage; external works; liaison with local authorities and service providers; setting out information; site supervision; and production of conveyance plans.

### **PACE - Chapelford Urban Village, Warrington**

An urban village concept development incorporating some 2000 dwellings together with retail, leisure, education and employment uses and a new railway station. Comprehensive drainage assessment and design of highways, with particular emphasis on public transport, cycling and walking.

### **George Wimpey – St Joseph’s School, Swindon**

Site Appraisal for a new development in Swindon including a new highway bridge, on-site attenuation measures and statutory undertaker costs.

### **Land East of Swindon**

Transportation Appraisal examining potential 40,000m<sup>2</sup> BI office business park & 3,000 dwellings on land east of Swindon together with River Cole catchment flood risk assessment.

### **Romsey, Hampshire**

Transportation Assessment and Drainage Strategy for new 1000-dwelling residential development on outskirts of town incorporating integrated public transport solutions. Included individual junction and corridor micro-simulation modelling.

### **Badminton Homes - Blunsdon St Andrew, Swindon**

Conversion of an existing building together with new properties. CEC undertook the design for the site access, turning head, domestic drainage, and on-site surface water attenuation.

### **Bower Mapson - Gilberts Hill School, Wilts.**

Conversion of an existing school building to prestigious luxury apartments. CEC designed the access and domestic drainage.

### **Charles Church (Western) – Ruardean**

Despite its situation on a steep gradient, the design had to achieve Part M level accesses, particularly as some of the houses fronted directly onto an existing carriageway. Part of the drainage design utilized Stormcell for on-site attenuation in agreement with Welsh Water.

### **Crest Nicholson – New College, Swindon**

CEC successfully introduced permeable paving as a form of sustainable drainage for this high-density residential development to reduce the level of required storage within the adoptable sewer. The road layout was designed to incorporate a new bus route.

### **Hannick Homes – Wansdyke Nurseries, Devizes**

A new development on an existing arboretum, where every tree within the site was protected by a Tree Preservation Order. CEC’s design avoided these trees yet met with the Developer’s requirements. A foul water pumping station was introduced and porous pipes used to dissipate surface water into a small storage lagoon and the surrounding ground.

### **Hills Property Ltd – Sarum Drive, Devizes**

CEC-designed access road complete with turning head and cycleway links. The drainage design incorporated adoptable highway soakaways to drain the new highway.

### **Newland Homes – Hayden Road, Cheltenham**

CEC liaised with the Environment Agency throughout the design to avoid adverse effects to the nearby River Chelt. To provide access to the site, CEC designed a mini-roundabout, which incorporated traffic calming features and safe crossing points for pedestrians.

### **Persimmon Homes – Witney, Oxfordshire**

A large residential development for which CEC provided the design for drainage and highways. As part of the design, and to satisfy with the Environment Agency and local wildlife experts, a mammal crossing was introduced. This enabled local wildlife, in particular badgers, to cross the new highway in safety through a purpose-built tunnel.

### **Westbury Homes – Shaftesbury, Dorset**

CEC designed the highways and drainage for this large residential development. The domestic drainage had to consider the proximity of the houses to the back of the adoptable footpaths. Various types of road drainage were used in the design, including central drainage channels. On-site surface water storage was increased through the enlargement of an existing pond.

## Sports Facilities & Stadia

We provide advice and practical design solutions relating to the development of new or existing sports facilities and stadia from local to national level.

### **Charlton Athletic FC**

Initial Travel Plan for new North Stand at The Valley. Review and monitoring of Travel Plan to secure new 3,500-seat East Stand. Transportation advice on development of Training Academy facilities at separate site.

### **Manchester United FC**

CEC provided advice on car parking and access, including representation at Public Inquiry.

### **Everton FC**

Transportation feasibility of nine alternative sites including a Transportation Assessment of the existing ground for possible redevelopment.

### **Bristol City FC / Bristol Rovers FC / Bristol RFC**

Transportation feasibility of three alternative sites for possible relocation of all clubs to a single site. Transportation feasibility of nine alternative sites including a Transportation Assessment of the existing ground for possible redevelopment.

### **Cirencester FC**

Transportation Assessment to consider impact of relocation to a green field site and redevelopment of existing.

### **Ricoh Arena, Coventry**

Revised Travel Plan for major events at 33,000-seat stadium including public consultation, supporters' survey and preparation of Coach & Car Parking Management Strategy. Also, Travel Risk Assessment including detailed computer modelling of pedestrian movements.

### **Brentford FC**

Pre-feasibility transportation advice relating to possible relocation of existing Griffin Park stadium.

### **Chippenham Town Council**

Detailed hydrology and highway access design for the design of new multi-pitch playing fields to the east of the town centre

### **Wimbledon FC**

Transportation study relating to feasibility of redeveloping ground at Plough Lane.

### **Olympic White Water & Canoe Slalom, Broxbourne**

Preparing scope for Transport Assessment for venue site for 2012 London Olympics.

## Travel Plans

- Lingley Mere Business Park, Warrington
- Magic Land, Cirencester
- Haberdasher's Academy, Lewisham
- Ricoh Arena, Coventry
- St. Joseph's School, Swindon
- Poole Goods Yard Development, Poole
- Oasis Academy, Innova Park, LB Enfield
- Central School of Speech & Drama, Swiss Cottage
- Erith Town Centre, LB Bexley
- Weymouth College, Weymouth
- City Literary Institute
- Wirral College
- Wigan & Leigh College
- St Paul's Academy, LB Greenwich
- Charlton Athletic Football Club, LB Greenwich
- Patheon UK Limited
- Oasis Academy, Enfield
- TS Tech, Swindon
- St. Wilfrid's Catholic School, Crawley
- ASDA, Halesowen
- Abbey Wood Academy, Greenwich
- Bellwinch Homes
- Oasis Academy, Hengrove, Bristol



## Environmental Policy Statement

*Cole Easdon Consultants' core purpose is to deliver quality sustainable solutions that create business advantages for our clients. We provide professional and technical advice through consultancy and design services in Civil Engineering; Infrastructure; Highways and Transportation; Hydrology and Drainage.*

### **Legislation Compliance & Pollution Prevention**

Through our experience and expertise, we aim to identify significant environmental problems while providing technical and managerial solutions. We are committed to identifying and improving environmental performance and preventing pollution. As a minimum we will comply with all relevant legislative requirements and, where they exist, appropriate industry guidance and voluntary agreements.

### **Working with Clients**

We will seek to encourage clients to adopt low-impact environmental solutions and we will active in the promotion of discussions to further environmental debate and understanding.

### **Our Operations**

We will endeavour to use our offices as examples of good environmental practice, working within the constraints of our existing building stock.

### **Using Energy Efficiently**

Cole Easdon Consultants are committed to:

- Reducing the environmental impact arising from energy consumption in our offices.
- Promoting the use of clean, energy efficient technologies in our designs.

### **Reducing Transport Impacts**

We will seek opportunities to reduce the need for travel in our own operations and when advising clients. We will encourage the use of public transport, car sharing and cycling for business and commuter travel.

### **Managing Materials Use**

We aim to minimise the use of natural resources in our office operations and projects by adopting the concepts of reduce, re-use and recycle:

- Seek opportunities to *reduce* significant material use;
- Encourage the *re-use* of materials; and
- Encourage the recycling of materials and use of recycled materials.

### **Sound Environmental Management**

This policy is supported by in-house environmental management, which will be reviewed and audited regularly with the aim to continually improve our performance, through the setting of appropriate objectives and targets.

### **Communication & Endorsement**

This policy is endorsed by the Directors who are responsible for its implementation together with staff who also have a responsibility for endeavouring to reduce the environmental impacts of their work.



## Company Aim & Service Policy Statement

*Cole Easdon Consultants has an excellent reputation in their key areas of business practice as one of the UK's leading specialist firms of transportation, hydrology and civil engineers.*

### **Company Aim**

Cole Easdon Consultants' aim is to achieve, sustain and continually improve the high quality of our services and to ensure that they meet the needs of clients in a cost-effective way. We will continue to:

- Establish a significant transportation and civil engineering presence nationwide;
- Ensure Company management, services and design solutions are achieved in an environmentally responsible and sustainable manner;
- Create a reputation for technical excellence;
- Assist staff with the development of necessary engineering skills;
- Extend the expertise of the Company into other transportation and civil engineering sectors;
- To progress the business development of the Company in the UK;
- Increase Cole Easdon Consultants' stature and influence;
- Safeguard Cole Easdon Consultants' standards and integrity; and
- Provide challenging and secure employment

### **Service Policy**

This Service Policy Statement reflects the commitment of the Company to quality service and the achievement of this goal is supported by the Company's management systems, which embrace both quality management and the continual improvement of our service.

Quality management provides confidence both to our clients and our own management that our service will meet their quality expectations. Our quality system emphasises the importance of adequate planning and review in the delivery of a quality service and aims at meeting our client's requirements on each consulting commission undertaken.

Continual improvement, which is a cornerstone of all our management systems, focuses on better service to our clients, and addresses other key Company objectives to develop our reputation, people technologies and finances to maintain our position as one of the UK's leading specialist civil engineering and transportation consultancies. It includes improved client interaction, more effective learning from our project experience and more support for our project managers so that they can apply the right technology and management to projects. Our service targets best practice and is reinforced by our culture of openness, teamwork and sharing of experience.

We are totally committed to the achievement of the Company's goals and all staff are encouraged to become actively involved in the implementation and operation of our management systems to ensure quality service and continual improvement. Personal attitudes are important and staff are encouraged to develop and maintain their co-operation and teamwork with a keen sensitivity to the continual improvement of our service.