Macnaughton, a company with many years experience working with major organizations on railway projects. With the expertise to develop a project from the Client's first ideas through to completion or if required provide support and guidance at any stage.
Willesden Locomotive Depot  
Client: London Overground  
Upgrading of the existing depot providing enhanced servicing facilities for the new London Rail Concession  
Project value: £ 3.5m  
Concept design and production of the Employers Requirements

Light Maintenance Depot at Wembley  
Client: M40 Trains Limited  
Construction of a new light maintenance facility including stores and offices. The works include new mainline connections and the provision and upgrading of the mainline signaling system through the area  
Project value: £ 20m  
Involvement in all stages of the project from the original design concept through to construction. Responsible for the identification and specification of the internal depot signaling system

Wembley Depot  
Client: Chiltern Railways  
Outline design of additional stabling Facility, this included production of the Employers Requirements and Tender Documentation along with Technical reviews of the detailed design and Project Management during the delivery stage.
Aylesbury Depot
Client:- M40 Trains Limited.
Upgrading of the existing facility including an extension of the workshop building with installation of an underfloor wheel lathe and additional fuelling facilities. Extension to the staff facility and offices including creation of a new training school
Project value:- £ 5m
Structural, Architectural and Building Services design from development of the concept through to tender including production of the Employers Requirements.
Project management and Design Management for the detailed design and construction

Aylesbury Depot – Client Chiltern Railways
Development of the new Jacking Bay facility, production of the Employers Requirements and Tender Documentation

Stourbridge Depot:- Client Chiltern Railways
Proposed new depot facility to upgrade and replace a set of existing sidings. The project includes installation of stabling sidings and signaling with workshop and ancillary buildings
Development of the scheme and production of the Employers Requirements

Queens Head:- Client Chiltern Railways
Development of a proposed depot scheme using an alternative site to Stourbridge depot
Production of the outline design concept and desk study

Ferme Park:- GNER
Located in North London this proposal included a heavy maintenance and cleaning facility to replace the existing carriage sidings
Production of the scheme design

Ardwick Depot:- Siemens
Located in Manchester and forming part of the Trans Pennine Express route
Assistance to Siemens during the early stages of the depot design and preparation of the outline project documentation
High Wycombe Station
Development of the station to provide a new transport interchange with new access roads and traffic signalled junctions along with upgrading of the station forecourt and the provision of a new glazed canopy.
Interchange Project Value: £1.5m
Outline design and development of the Employers Requirements and tender documentation. Design management of the contractors submissions along with Project Management during construction.

Marylebone Station
New and Improved Toilet Facilities
Full design for revised and new toilets to station concourse area including listed building submission
New Customer Information Screens (CIS)
Layout drawings and visualisations to support the Listed building submission
New Control Room on Platform 3
Design and Development of a new control facility on platform 3 to provide coordinated train dispatch and control

Wrexham Station
Client: Wrexham, Shropshire & Marylebone Railway
Development and conversion of the disused station building at Wrexham station to provide staff facilities, driver signing on point, stores and offices
Architectural design including obtaining planning permission for the works to this grade II listed building
Aylesbury Station
New lift installations. Architectural design and preparation of the Employers Requirements. Development of the Form A and Submission to Network Rail
Full detailed design working for SISK Rail for the installation of the new passenger lifts. Lead Designer and Architectural design. Along with provision of the Contractors Engineering Manager
Feasibility work for the new drivers accommodation building
Feasibility and Scheme design for NSIP upgrade works to Booking Hall and Toilets

Wycombe Station - Bay Platform
Temporary structure to allow longer trains serving London to terminate at High Wycombe. Future development works at the station will remove the need for this temporary platform
Project Value:- £600k
Outline design and production of the Employers Requirements. Design Management during the construction phase

Project Evergreen 2
Comprising a line upgrade between Bicester North and London Marylebone Station, with two new platforms being constructed at Marylebone. These platforms were the first new platforms to be installed at a London terminus since privatization
Total project value:- £70m
Project Evergreen 2 was the first of its kind in the UK rail industry and also won ‘Best Operational Central Government Award’ at the annual Public Private Finance Awards
The project was procured by Chiltern Railways using the DBFT (design, build, finance and transfer) model. The project was delivered on time and within budget
Working with John Laing Construction we developed the Initial Concept design for the works at Marylebone. This included the new platforms, canopy and initial track alignment works
Part of team based in the combined project office providing project management and design management services for the construction works at Marylebone and the signaling installation works
London Overground
Under the new London Rail Concession there is an extensive programme of station refurbishment works for the 35 stations along the route, including two listed buildings.

Development of the design to tender stage for the station upgrade and refurbishment works

Kensington (Olympia)
Concept design for the provision of a new station building in a location better suited to the current passenger usage. The existing station building would be converted into a new retail unit.
Technical Support in respect of the selection of specialised Railway Equipment

**Carriage Wash**
- Willesden Depot
  - Temporary Wash
  - Permanent Wash
- Wembley Depot
  - Permanent Wash

**Padview**
Automatic Break Pad
Measuring Device.
Project management of the site work in conjunction with AEA Technology (Delta Rail)

**Underfloor Wheel Lathe**
Aylesbury Depot

**Tiefenbach Depot Signalling System**
Wembley Depot
Car Parks

High Wycombe Station
Multi Storey Car Park
Client: Chiltern Railways

This project involved the construction of a new three storey car park deck adjacent to High Wycombe Station

Project value: £2.9m

Scheme design and design management of the contractors’ final design along with Project Management during construction

Beaconsfield Station Car Park
Client: Chiltern Railways

This project involved the construction of a new multi storey car park deck adjacent to Beaconsfield Station

The single deck constructed in 2002 and was designed to accommodate a second deck at a future date

Project value: £1.2m

Scheme design and design management of the contractors’ final design

In 2007 Chiltern Railways commissioned the construction of the second deck on top of the existing facility

Project Value: £1.8m

Project Management of the scheme

Chiltern Railways – MSCP Projects

Additional parking at key commuter stations through the utilisation of single storey car park decks to cater for both current and future demand

This provided additional spaces through new car park decks at the following stations. Development of the outline design, Employers Requirements and Tender Documentation

- Haddenham & Thame Parkway – Single Storey Deck
- Bicester North Station – Single Storey Deck
- Solihull Station – Single Storey Deck
- Warwick Parkway Stations – Two Storey Multi Storey Car Park
Car Park Layout Design
Design work in support of franchise renewal - included developing various options for a site and producing a feasibility report. Client:- John Laing

Chiltern Railways (Snow Hill Lines)
Earlswood Hartlebury
Henley In Arden Whitlocks End

First Capital Connect
Bristol Parkway Hungtingdon
Hitchin Swindon

South West Trains
Aldershot Andover
Basingstoke Esher
Farnborough Haslemere

Stagecoach Rail
Beston Chesterfield Kettering
Derby Lincoln
Leicester Sheffield
Market Harborough

Modular Car Park
Client:- John Laing Construction
Development and design of a modular car park design that included the design of an innovative pre-cast concrete screw cone foundation system.
Both the Modular Car Park and Screw Cone foundation designs were patented.
Banbury – Control Centre
Client:- Chiltern Railways
Extension of the existing building to provide an upgraded control centre and the incorporation of customer services and train planning operations
Project value £1.3m

DB Metro – HQ and Training Facility
Client:- DB Metro
Design and Project Management for construction of a new office suite and training facility within the current Head Office building.

The work was completed while the office remained in operation throughout.

Control Room – Overground House
Client:- London Overground
Development of the concept design for the new control room including establishing the operational constraints and space planning requirements

Training School – Willesden Depot
Client:- London Overground
Development of the new training facility for the drivers including offices, staff facilities and train simulator. Concept design with production of the Form “A” and the Employers requirements
Staff Accommodation Block – Willesden Depot  
**Client:** London Overground  
Enhancement of the existing depot staff accommodation block including the provision of additional toilet facilities. Development of the concept design and specification up to tender stage along with production of the Form “A” and Employers Requirements.

**Aylesbury Depot – Accommodation Block**  
**Client:** Chiltern Railways  
Expansion of the accommodation building and creation of a new training school. Comprising an extension to the existing building and installation of a new first floor within part of the existing building envelope.

Development of the concept and specification up to tender stage. Project management, Design Management and coordination during the construction phase.

**Control Room Building – Marylebone Station**  
**Client:** Chiltern Railways  
Development of the concept and design during the tender and construction phases.

Project management, Design Management during feasibility, tender and construction.

**Moor Street Station**  
**Client:** Chiltern Railways  
ARA Building. Design of the layout and fit-out to an existing vacant facility.
Marylebone station New Control Building – Client Chiltern Railways
Project Manager for the new train control facility on platform 3

High Wycombe Station – Client Chiltern Railways
Total Project Value £6.9m
Project Manager for the station redevelopment project. This involved construction of a new three storey car park, provision of a new transport interchange with new traffic signaled junctions to the station entrance and exit.

Chiltern Railways Car Park Projects
Solihull Station
- Project Value £2.0m
- Upgrading of the parking facilities at the station including provision of a new car park deck and additional adjacent temporary parking

Warwick Parkway Station
- Project Value £2.5m
- Provision of a two storey car park

Chiltern Railways Engineering Projects.
Project Management services for various projects to improve the engineering facilities.

Aylesbury Depot
- Provision of a new jacking bay

Wembley Depot.
- Extension of the stabling facility to cater for the new Locomotive powered trains
- New Shore supply with the existing depot to cater for the Locomotive powered trains

Tyne and Wear Metro – Client DB Regio uk
Project Manager for construction of a new office suite and training facility within the current Head Office building.
Project manager for the relocation of the existing staff at the commencement of the franchise.

Stourbridge Depot – Client Chiltern Railways
Project Value £14m
Project Manager for a proposed new depot facility to upgrade and replace a set of existing sidings. This project was developed up to tender stage.

Beaconsfield Station Car Park 2nd Deck – Client Chiltern Railways
Project Value £1.8m
Project manager for the construction of an additional second floor car park deck onto the existing single storey car park deck that was constructed in 2002.

New Light Maintenance Depot at Wembley – Client M40 Trains Limited.
Project Value £24m
Construction of a new light maintenance facility including stores and offices - Project manager for the mainline works including the signaling and permanent way works.

Aylesbury Depot - Client M40 Trains Limited.
Project Value £8m
Project manager for the development of the concept and detailed design up to the execution stage of the project.
Provision of CDM Coordinator Services on the following projects

**Aylesbury Depot Provision of new Jacking Bays**
Additional jacking facilities at the depot with modification to the existing structure

**Leamington Spa Station Car park project**
The project was for provision of new and extended surface parking

**High Wycombe Transport Interchange.**
The Project provided a new traffic interchange and road circulation including new traffic signalled Highway junctions

**High Wycombe Station New Multi Storey Car Park**
Provision of a new three storey car park deck at the station

**Solihull Station Car Park Project**
Improvements to the station parking facilities including provision of a new car park deck to the main station car park

**Warwick Parkway Station new Multi Storey Car Park**
Provision of a new three storey car park deck at the station

**Marylebone Station new Control Room**
Provision of a new control facility on platform 3
**Visualisations**

Produced either to clarify a proposal, substantiation a planning application or even to convey to the general public the appearance of the final scheme.

**Haddenham & Thame Parkway Station.**
Visualisation of the new modular deck.

**Evergreen 3 Project.**
**Water Eaton Station** - Production of visualisations for a proposed new station.
Evergreen 3 is a £250million Major railway improvement project to create a new main line from London to Oxfordshire and to deliver much faster services on the Chiltern route to Banbury and Birmingham.
Images were produced for various locations to support the Transport & Works Act (TWA) submission and the associated public inquiry.
London Overground
Station upgrade Project
Photo montages to support the station upgrade and refurbishment designs

Finchley Road & Frognal
New entrance treatment including new canopy

Finchley Road & Frognal
Internal view booking hall

Kentish Town West
View from station entrance
Technical Services

- Architectural Design
- Structural Design
- Building Services Design
- Project Management
- CDM Coordinator
- Procurement
- Commercial Estimating
- Commercial Negotiations
- Quantity Surveying
- Visualizations
- Space Planning

Car Park Design

Railway Consultancy Services

Railway Depots Design

Station Design