New Build Depot, Ashford

Project: New Build Depot, Ashford
Value: £52m
Client: Hitachi
Sector: Rail
Completed: 2007

Overview

Our people supported Hitachi in achieveing their goal of providing turnkey service support to the train operator based at Ashford Train Maintenance Centre, through the design and build of their first UK maintenance centre. The new build depot included the implementation of 20.5km of track, an isolated test track, two train-wash plants, automatic inspection equipment, a bogie drop, a six car synchronous train lift and a tandem wheel lathe. These features allow Hitachi to perform who life maintenance, repair, overnight servicing and cleaning as well as ad-hoc repairs and servicing.

Project Innovation

This new build depot was built in seven phases, with a two year program scheduled, however despite it being a complex build due to the site being an operational railway stabling facility, the asset was successfully delivered on time due to the use of cutting edge technology aligned with excellent communication.

Waldeck
Consult Design Deliver

New Build Depot, Etches Park

Project: New Build Depot, Etches Park
Value: £20m
Client: East Midlands Trains
Sector: Rail
Completed: 2014

Overview

Our people have been involved in the feasibility planning of the £20 million, new build depot at Etches Park. This new build depot development incorporated a 400m² storage and workshop area with associated office and staff welfare facilities, alongside a new wheel lathe outbuilding.

Project Innovation

This was a large-scale, highly complex depot construction, providing regular routine servicing for all rolling stock. In addition to a storage facility and staff quarters, our people provided feasibility expertise to support the reduction of risk throughout the build of a new covered three road seven car set with two through roads, one buffer stop road and two service pit roads.

In order to meet the client requirements, a lowered floor with the track on steel supports was installed aligned with one road with a flat floor fitted with a seven car set, and an overhead gantry crane with access to all three roads.

Waldeck
Consult Design Deliver

New Build Depot, Ardwick

Project: New Build Depot, Ardwick
Value: £30m
Client: Siemens
Sector: Rail
Completed: 2006

Overview

The creation of this new build depot in Ardwick, Manchester has created a gateway to the Trans Pennine route, bringing new life to what was a redundant area of land within the city. The asset totals 10 acres, accommodating a total of eight trains at a time in the maintenance shed which covers 6000m2. Within the area is a wheel lathe, train jacks and under floor bogie and engine drops, which were designed and developed with the support of our people. Alongside this, Waldeck people were also responsible for engineering design aspects of the offices, workshops, a stores area and a First TransPennine Express simulator unit for driver training.

Project Innovation

Douglas Alexander MP, First TransPennine Express shared that the depot was “great news for passengers in the north of England” and that he “welcomed the investment.” Allowing trains to be maintained to a high standard and raise the quality of rail journeys. The use of cutting edge technology and excellent communication allowed all involved to provide the best possible technical solution to support the 51 strong fleet of newly built trains.

Waldeck
Consult Design Deliver

New Build Depot, North Pole & Stoke Gifford

Project: New Build Depot, North Pole
Value: £52m
Client: Hitachi
Sector: Rail
Completed: 2007

Overview

As part of the Intercity Express Programme (IEP), enabling the new Hitachi Super Express trains to be used on the capital's railway network, Waldecks people are involved with the construction of the new Intercity Express Depot at Stoke Gifford, Bristol. This is aligned with the redevelopment of the existing Eurostar North Pole Depot in London. Consulting services provided include Architecture, Civil and Structural Engineering, Fire Engineering and Acoustic in order to support the development of the maintenance facility.

Project Innovation

The Stoke Gifford site is located west of Bristol Parkway station, located on a brown field site previously used as a refuse tip. The site required extensive specialist planning including Fire Engineering and Acoustic Engineering as part of the redevelopment in order to provide the new purpose built, state of the art depot. The new build also incorporated an extensive 20 kilometres of new track and three new connections to the Great Western Main line.

Waldeck
Consult Design Deliver

New Build Depot, Reading

Project: New Build Depot, Reading
Value: £54m
Client: Network Rail
Sector: Rail
Completed: 2013

Overview

Waldeck people were involved in completing the engineering design for this award winning £54m project to construct a new 6,500m2 rail depot, the new build forms part of the Reading Area Redevelopment Scheme. The new depot, which was completed in June 2013, has been built to the west of Reading Station to free up the depot's previous location for new rail routes that will increase rail transport capacity.

The new 210m long, 37m wide depot shed has been built with a three road light maintenance 'through' road shed and a single road heavy maintenance shed, main stores, a workshop, plant rooms, a signalling room, a three storey production management office with 17 associated buildings and a 30 space car park.

Project Innovation

The project installed the first overhead wires for Network Rail's £895 million Great Western Electrification Programme and the project team was awarded 56 STAR awards and two Platinum Badger Awards through Network Rail's STAR awards scheme. A scheme which was established in order to recognise and reward worksites that achieve high levels of health, safety and environmental risk control.

Waldeck
Consult Design Deliver

New Build Depot, Northam

Project: New Build Depot, Northam
Value: £Undisclosed
Client: Siemens
Sector: Rail
Completed: 2012

Overview

Not only was this land mark new build depot one of the first new maintenance depots in the UK for many years, it was also Siemens first depot in the UK. Waldeck people headed up the Civil & Structural engineering for the entire project, aligned with Architectural Design in order to see the successful delivery of the asset, which capitalises on a pit-stop environment for the servicing of trains. As one of the key depots within the network, the state of the art facilties enable important maintenance work to be carried out.

Project Innovation

Cutting edge technology planned and implemented by our people provides Siemens with the facilities to ensure their Siemens Desiro Class 185 and Class 350/4 trains can be maintained as required, therefore remaining safe and reliable for the travelling public. The depot also opened for ‘Whistle Stop Tours’ allowing interested parties to visit the new build maintenance facility in action.

Waldeck
Consult Design Deliver

New Build Depot, Ramsgate

Project: New Build Depot, Ramsgate
Value: £34m
Client: Hitachi
Sector: Rail
Completed: 2007

Overview

Ramsgate depot is the second major new state-of-the-art traincare facility, the project included wholly redeveloping a 10,000m2 area of land residing north of the station which saw the erection of a huge 8000m3 maintenance depot measuring 195 metres in length. The new build accommodates five tracks, with a three-storey-high office block, complete with workshop and stores running along its southern elevation.

Project Innovation

Revised foundation design saw the client save both time and money due to increased efficiency and the reduction of overall risk. Alongside this, efficiency and communication was maximised through the implementation of a web-based document and communication system for all stakeholders which facilitated speedy dissemination and sharing of information and design, which at the time was cutting-edge innovation.

Above-ground attenuation tanks were used in order to minimise excavation within the aquifer and facilitate ease of future inspection and maintenance, along side the use of pre-cast concrete slabs within the construction of the ‘swimming pool’ area which allowed the team to deliver an efficient and speedy construction solution.

Waldeck
Consult Design Deliver

Temple Mills Depot, London

Project: Temple Mills Depot, London
Value: £9.1m
Client: VolkerFitzpatrick
Sector: Rail
Completed: 2013

Overview

This project with client VolkerFitzpatrick involved the careful modification of parts of the existing locomotive maintenance facility at Temple Mills Depot, London followed by construction activities to create additional space in order to house a new fleet of Eurostar trains. Temple Mills has been designed to meet the specific requirements of high-speed trains, with eight 400-metre tracks inside the depot shed, Eurostar trains no longer have to be split in half for maintenance, saving the Client at least two hours of time per train visit.

Project Innovation

All engineering and construction modification works for this project were undertaken in a live rail depot environment. Eurostar Chief Executive, Richard Brown shared that “Temple Mills will further improve the efficiency of maintaining our fleet. A feat of civil and railway engineering, Temple Mills is a truly world class depot, which has been finished on time and on budget.”

Waldeck
Consult Design Deliver