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ENGINEERING

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Steelwork for Health

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Caunton is one of the UK's leading steelwork contractors, offering a one stop construction solution. Specialising in the design, 3D Tekla modelling fabrication and erection of structural steelwork, Caunton Engineering can give a first class service every step of the way.

We are a family owned company, established in 1969 and we have since proven to be a progressive pioneer of fully automated manufacture, information technology and innovation.

Our Nottingham based production facility employs some of the most up to date CNC machinery, and state of the art painting facility within our 110,000 sq foot plant on a 42 acre site.

Gibraltar General Hospital

Steelwork despatched from England and Caunton-erected on the Rock of Gibraltar

Caunton Engineering, completed a significant structural steel project in Gibraltar for JV Fitzpatrick Contractors and Rotary. The project involved the conversion of a major concrete framed office block, built originally for a local telecoms corporation, into a quality hospital building which will form an extension to the Gibraltar General Hospital. The site is within Gibraltar's vital Europort area on the water-front, with site access and temporary storage necessarily reduced to a minimum.

Client: Gibraltar General Hospital Trust
Main Contractor: Fitzpatrick Contractors & Rotary J.V.
Engineer: Ross & Parters
Architect: Devereaux Architects Limited

The original seven-storey building, never in fact to be occupied, was required to receive an additional storey, in effect added to the top of the existing roof, in order to accommodate extra plant rooms necessary for the hospital services. The existing roof itself as a result, of course, had to be stiffened substantially too. Furthermore the contract included additional stiffening work from the basement area up to the roof to accommodate both additional lift shaft steelwork and the floor stiffening required to accommodate this.

In addition a link bridge was supplied, together with a new feature entrance canopy. An interesting and varied project – but not so easy to manage from over 2000 miles away.

Stoke Mandeville Hospital - New Medical Units

Renowned hospital, housing worlds largest spinal injuries department, is further enlarged ...

Caunton Engineering supplied steelwork to extend the facilities of the world famous hospital, the Stoke Mandeville Hospital, near Aylesbury. Working within an operational hospital environment is difficult enough, but the extensions in places overhang the existing building. The attention to safety for all, and the attendant erection expertise required, must therefore be of the highest order in such circumstances.

These extensions include requirements for medical, surgical assessment and paediatric services as well as a major day unit and operating theatres, The interesting architectural design features a range of courtyards and in this particular instance Caunton's crane and mobile elevated working platform (known as a cherry picker in the trade) were able to work conveniently and efficiently from within one of these areas.

Caunton's contract included for the supply of over 800te of structural steelwork, mainly beam-and-column braced frames up to three storeys in height, plus the metal decking and through deck stud welding and metal staircases, all providing early access for following trades when required.

The hospital extension itself provided beds for a further 220 patients and an additional 16,000m2 of new hospital accommodation. An excellent example of how steelwork speeds the construction of new much needed national healthcare resources.

Client: Stoke Mandeville Hospital Trust
Main Contractor: Carillion, formerly Alfred McAlpine Capital Projects
Engineer: White Young Green
Architect: HLM Design International
Tonnage: 800 tonnes

Good Hope Hospital - Ward Block One

New Three Storey Hospital extension aimed to improve operational efficiency

Caunton are supplying and erecting the steelwork, plus the related concrete floors and staircases, for a major new extension to the Good Hope Hospital in Sutton Coldfield.

Caunton are working for main contractor Interserve Project Services and client Heart of England Foundation NHS Trust, within the Procure 21 framework. The new extension is to be called Ward Block One, and is a £16.5million investment, and part of the hospital's 10 year development programme.

Over 700te of steelwork has been required and forms the beam and column framework for a three storey building and an enclosed plant room above. To minimize the building height, the designer Capita Symonds has employed a Slimflor design, incorporating universal column sections for the floor beams.

Client: NHS Heart of England Trust
Main Contractor: Simons Construction
Engineer: Ward Cole Partnership
Architect: Corstorphine & Wright
Tonnage: 140 tonnes

The aim of course is to improve the hospital's operational efficiency and also patient flow, and the new building is to be linked to the existing Accident & Emergency (A&E) department. This will be accommodating a Clinical Decisions unit, fifteen treatment bays, three consulting rooms and a medical records room. In addition to this, the first floor will incorporate a state-of-the-art I.T.U. and high dependency unit with eighteen treatment rooms, a coronary care unit on the second floor and a ward to house elderly patients on the third floor.

Queen Mother Hospital - Thanet, Kent

A major extension to an established hospital opened three months early

Caunton Engineering have supplied and erected over 1000te of structural steelwork for a 120.000 sq ft extension to the Thanet General Hospital in Margate.

Steel was selected as the framing material very much for its benefits in speed of construction. The main contractor Birse Construction reports the scheme was completed under a fast track programme in only 78 weeks, allowing the wing to open 3 months earlier than planned – a testament indeed to steel's advantages in speedy construction. The extension, shown in the left photograph under construction, was designed by Rust Consulting. It accommodates a range of hospital facilities – A&E, wards and operating theatres, care and treatment units and a hydrotherapy pool. – Thus demonstrating further benefits of framing in steel. Steel's flexibility helps to accommodate the requirements of these very disparate hospital functions.

Client: Thanet Health Care Trust
Main Contractor: Birse Construction
Engineer: Rust Consulting
Architect: Rust Consulting
Tonnage: 1030 tonnes

The extension funded by the Thanet Healthcare Trust has now been named the Queen Mother Hospital – in memory of, may we most respectfully say, very much a "lady of steel".

Kettering General Hospital - Catheterisation Unit

Built over the air-rights of the existing hospital

Caunton Engineering have been employed at Kettering General Hospital to help build the new Cardiac Catheterisation Unit. They are working for Medicinq Ltd., the Procure 21 NHS-framework contractor – in actuality a team of four major contractors. Simons Construction is the lead contractor for Medicinq in this case.

The project involved building over the "air rights"of an existing single storey hospital building. Caunton erected a sequence of two storey portal frames (one pitched) over this building. These required massive 914x419 Universal Beam sections for the 20-metre-spanning floor beams.

The site was extremely difficult to access. A 250te mobile crane was necessary to erect both steelwork and pre-cast concrete floor planks, from outside the footprint of the building.

Fire engineering benefited the design of the frame – the floor beams were sprayed off-site with intumescent paint, while the columns were in fact boarded.

Resistance to vibration is so important in such sensitive areas. The area where the sensitive cardiac catheterisation equipment is housed required substantial floor stiffening thereby minimising induced vibration. This was a requirement that steel was readily able to accommodate.

Client: Kettering General Hospital NHS Trust
Main Contractor: Medicinq Ltd in J.V. with Simons Construction
Engineer: David Smith Associates
Architect: Gotch Saunders and Surridge
Tonnage: 300 tonnes

The Babraham Institute, Cambridge - Bio Development Building

A new three storey building for cutting edge bio medical research

Caunton have been working for Marriott Construction at the esteemed Babraham Institute located near the University City of Cambridge.

Those working there undertake innovative biomedical research to discover the molecular mechanisms that underlie normal cellular processes and functions, and how, over lifetime, their failure or abnormality may lead to disease. The institute provides its scientists with an extensive infrastructure of central support services and with privileged access to a number of scientific service companies. In addition, the Institutes support services offer possibilities for external contract work. The current five-year programme of development of the central campus will also see all research groups housed in an interconnected set of modern laboratory buildings with an adjacent building housing all the scientific service facilities. Caunton provided the steelwork for the Bio Incubator Building now being used by start up companies.

Client: The Babraham Institute
Main Contractor: Marriott Construction
Engineer: Colin Toms & Partners
Architect: SMC Charter Architects
Tonnage: 260 tonnes

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