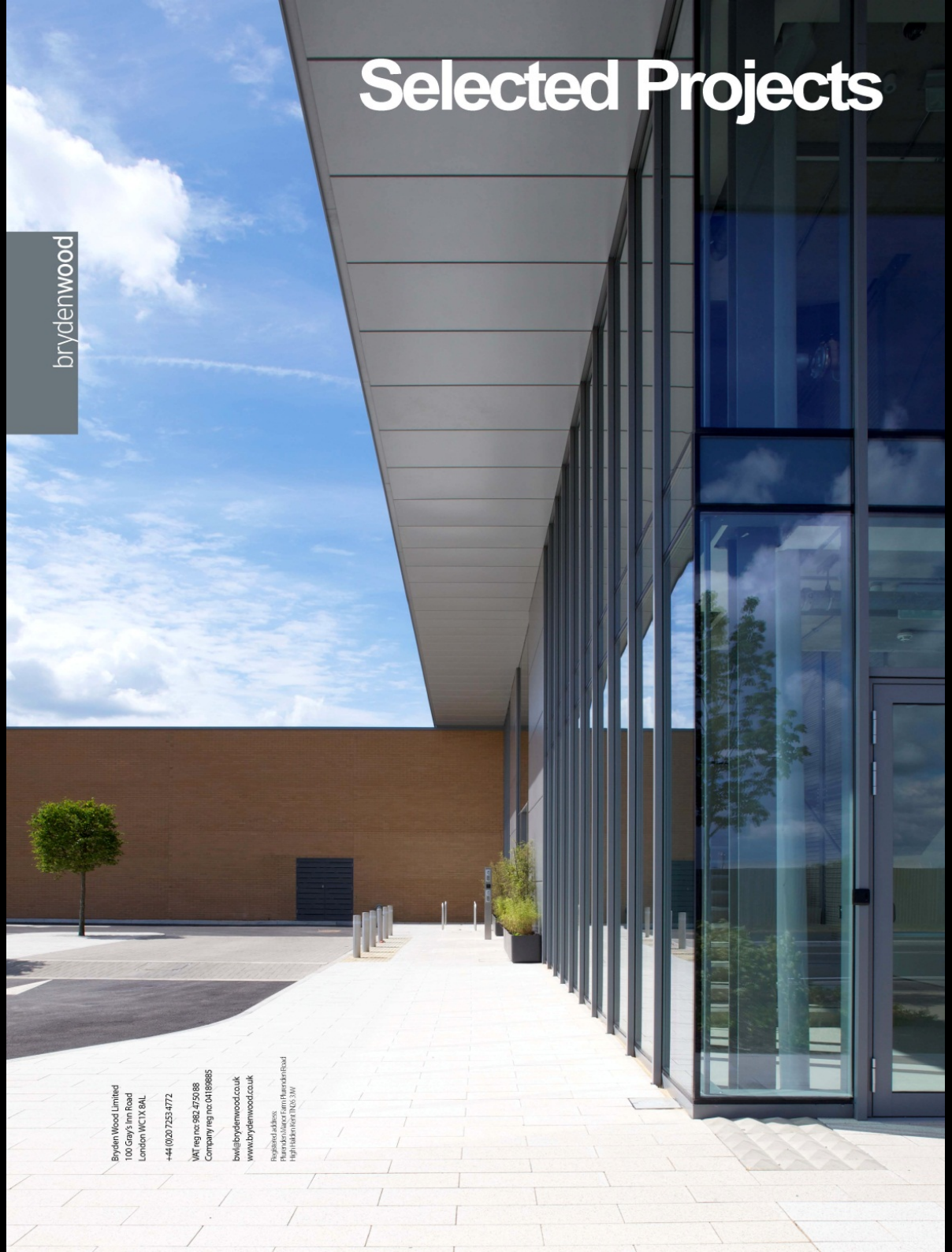
Selected Projects



brydenwood

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Heathrow T5

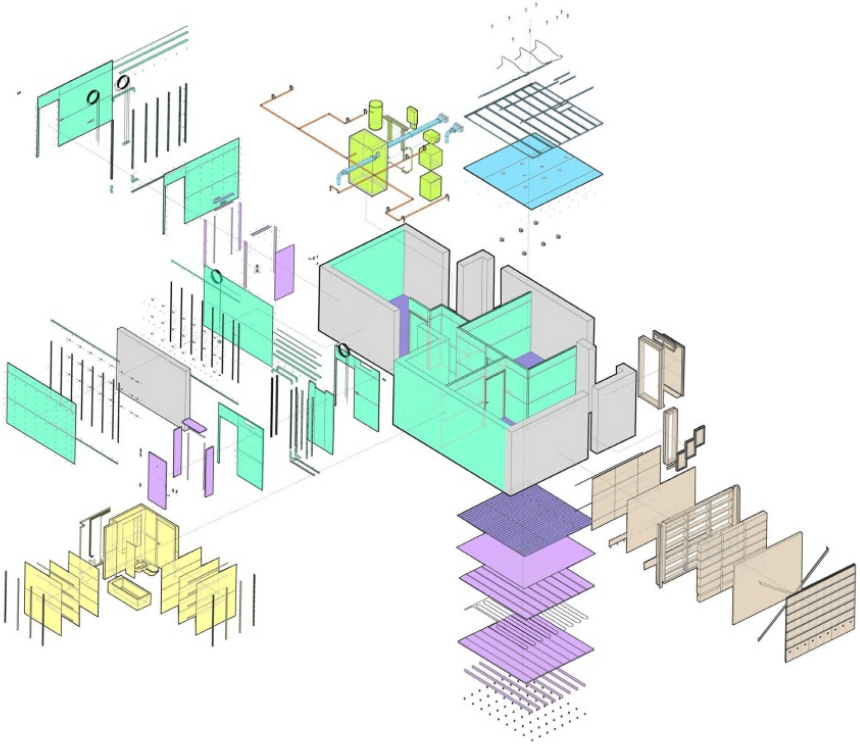
DETAIL DESIGN OF INTERNAL FIT OUT INCLUDING WALLS, INTERNAL ROOFS, BALUSTRADES AND HANDRAILS, GLAZING SYSTEMS

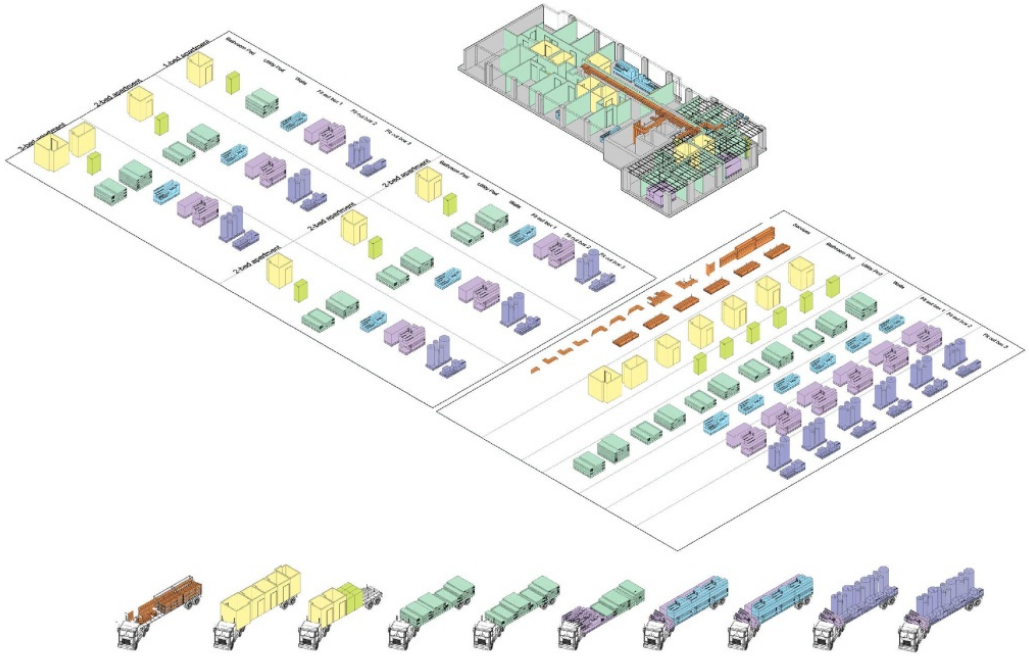
From August 2003 Bryden Wood were part of the multi-disciplinary design team working on Heathrow Terminal 5. As part of the Production Design Fit Out team, our work included detail design of walls, internal roofs, balustrades and handrails, glazing systems, the production of design information for soffit insulation packages and IT ducting packages. Innovative design solutions and a refreshed attitude towards the generation of design package information were required to fulfil project aspirations.

At a cost of £3.7 billion, the overall programme included the terminal buildings, new aircraft stands, the M25 spur road, two rail stations and the Piccadilly Line and Heathrow Express extensions, an air traffic control tower, landscaping, a car park and a hotel. With the addition of a second satellite building and associated facilities, Terminal 5 will serve around 30 million passengers by 2016.

Appointment:
Detail and production design architects
Programme:
Construction January 2004
Completion February 2010
Client: BAA / Mace Solutions


CMA CGM





London 2012 Olympics Athletes' Village

AN INTEGRATED AND SUSTAINABLE URBAN DEVELOPMENT TO PROVIDE STATE-OF-THE-ART ACCOMMODATION FOR ATHLETES DURING THE LONDON 2012 OLYMPICS AND A NEW URBAN AREA FOR LONDON AFTER THE GAMES

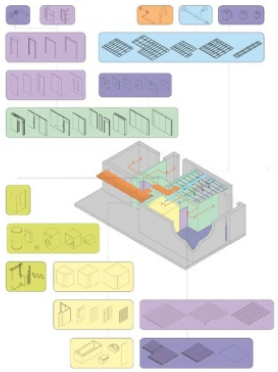
The London 2012 Athletes Village will provide accommodation for the 24,500 athletes and event staff who will be taking part in the 2012 Olympic and Paralympic games. After the completion of the games, the development will be transformed into a new urban area in East London comprising approximately 2900 apartments and townhouses arranged over 11 plots.

Each individual plot retains its own architectural identity, with different practices involved in each case, while Bryden Wood has been engaged in a site-wide capacity across all the plots as the "Standard Detail Designer". Bryden Wood liaises with each of the plot-specific design teams to guide the design process and implement the use of standard detail information for all elements common across the different buildings.

Project efficiency is maximized by reducing the amount of duplicated work and centralizing the design delivery resource, thus minimizing design risk and allowing the design to evolve in line with the preferences of the developer (Lend Lease).

Appointment:
Detail and Production Designers
Programme:
Design June 2008
Design completion June 2009
Construction complete 2012
Client: Lend Lease

Components database & assembly schedules

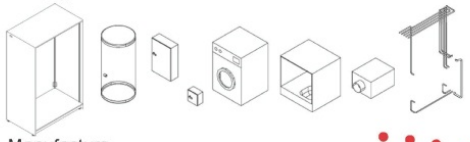


Plot design
Configure individual building and apartment layouts

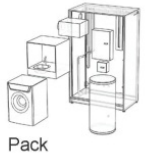
Standard design details
Engineered and specified at component level

Production Demand
Detailed Production Assembly Schedules for each plot / building / apartment (aggregated / time)

Suppliers



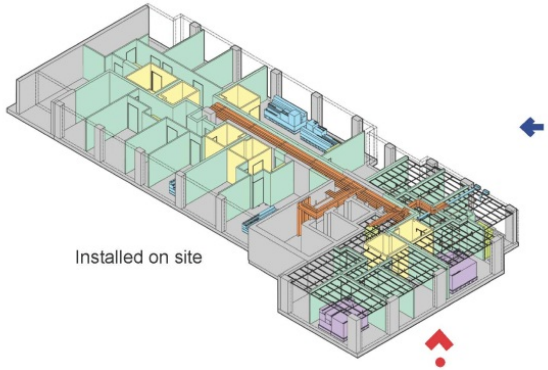
Manufacture



Pack

Information to be provided by suppliers
- Number of Deliveries
- Types of Materials
- Volume of packaging (area)
- Types of Stillage/Pallets
- Weights of Products
- Specific lifting locations
- Plans for holding in M. Zones
- COSHH Information

Site



Installed on site

Ready to be installed

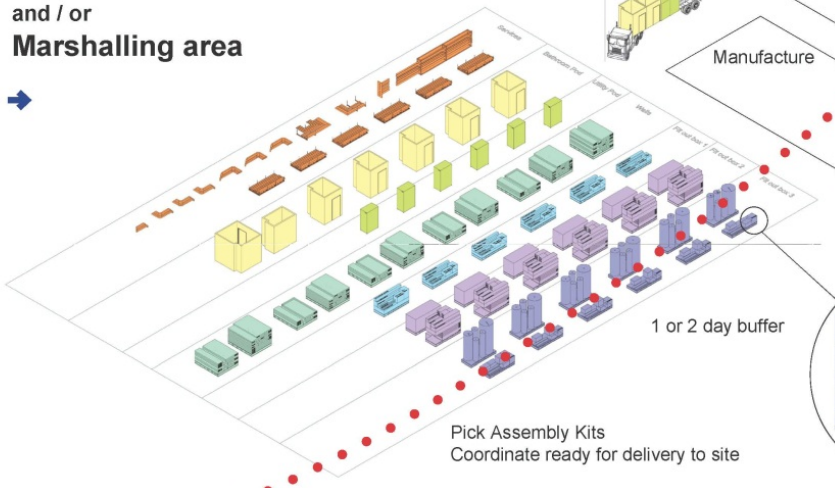
Consolidation centre and / or Marshalling area

OSM delivered by road directly to buffer or marshalling area

Commodities delivered by rail

Manufacture

Materials in



1 or 2 day buffer

Product labelling

Pick Assembly Kits
Coordinate ready for delivery to site

'Pull'

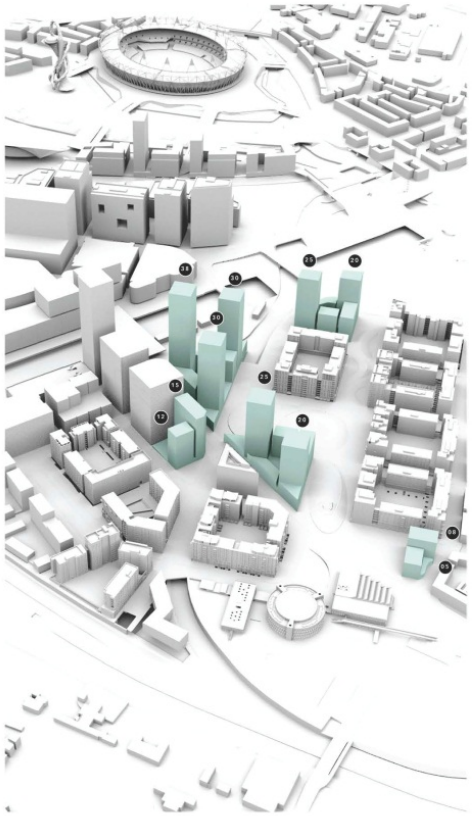
Production control system

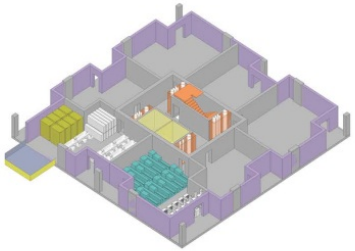
Delivery

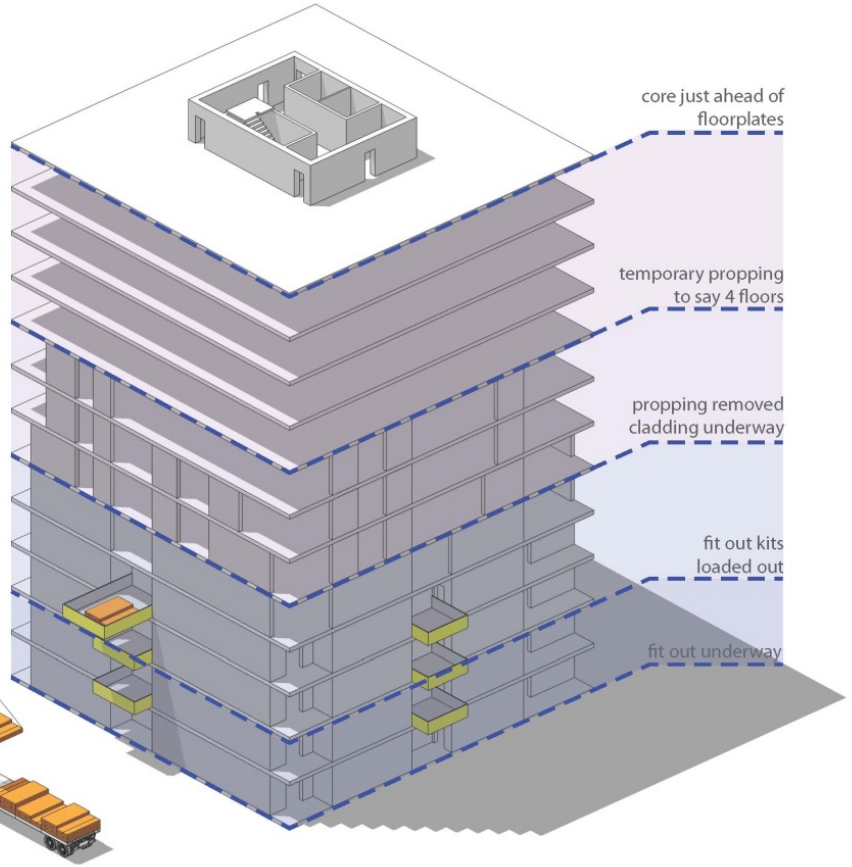
Deliver today the Assembly Kits to be installed tomorrow / the day after

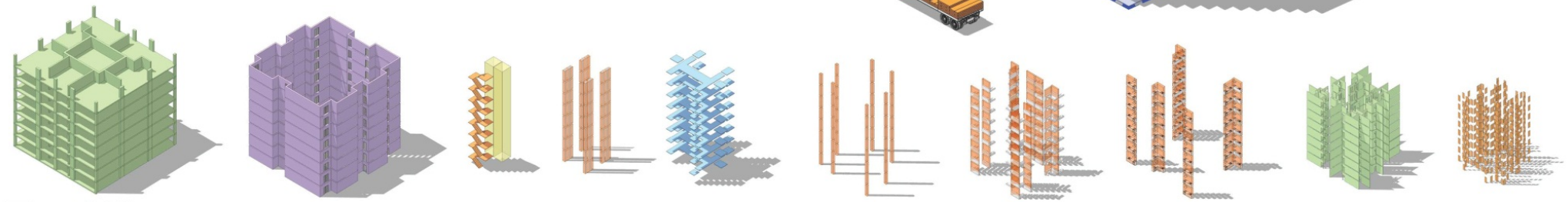
Different product label for every day


CELEBRATION
AVENUE
E20









East Village

DEVELOPMENT OF 6 PLOTS ADJACENT TO THE OLYMPIC SITE IN STRATFORD, EAST LONDON, TO CREATE A MIXED USE SCHEME INCLUDING 1,900 NEW APARTMENTS

BWL have been appointed by Qatari Diar Delancey to developing a delivery strategy for 6 plots ranging in height from 5 storeys to 38. Each of the plots is to have its own unique architectural character, while being based on a standard set of components (the 'Integrated Platform'). By adopting a strategic approach to delivery, the East Village project aims benefit from significant savings compared to a 'traditional' construction project, where typically only half of the construction sum remains as residual value in the final product. A strategy based on a delivery concept that relies on the appropriate level of standardisation, and that from the beginning takes into account how building elements are procured, will result in significant improvements in cost, programme and quality. Building Information Modelling (BIM), along with the adoption of best-in-class design, coordination and delivery tools and processes, are the key concepts that will allow these savings to be realised. The strategy allows for an incremental increase in sophistication from plot to plot, adopting first standard building frameworks and interface details, before introducing off site manufactured elements in later plots as the project team and supply chain grows in experience. This approach also allows for a wide range of procurement options.

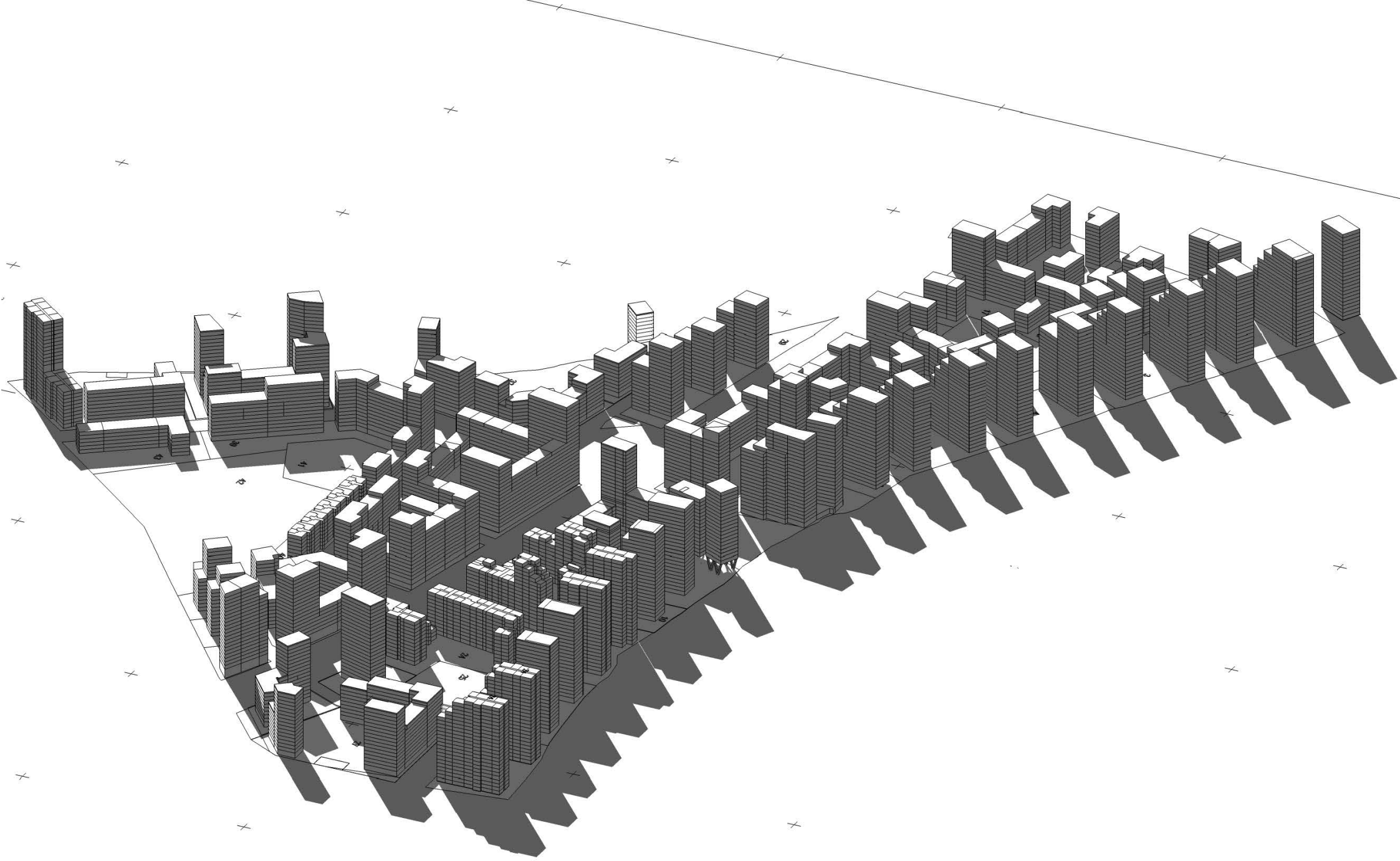
Appointment:
Architects and design for manufacture consultants
Programme:
Design Q4 2012 onwards
Client: Qatari Diar Delancey

Gutenborg Residential

In St. Petersburg, Bryden Wood have been appointed to deliver design services for the Gutenborg project for SPb Renovation, a company responsible for the regeneration of large areas of St Petersburg's suburban residential communities.

Bryden Wood have developed a standardised chassis approach for the Gutenborg site utilising prefabricated components. Bryden Wood also have an ongoing role as architects for the initial residential plots, and structural and services engineers of all plots.

The project design will be carried out in an integrated BIM environment, one of the first projects in Russia to be delivered in this way. The SPb Renovation projects are of a scale and ambition never before seen in Russia and firmly position Bryden Wood as industry leaders in residential sector innovation.




ШОКОЛАДНИЦА

Circle Health

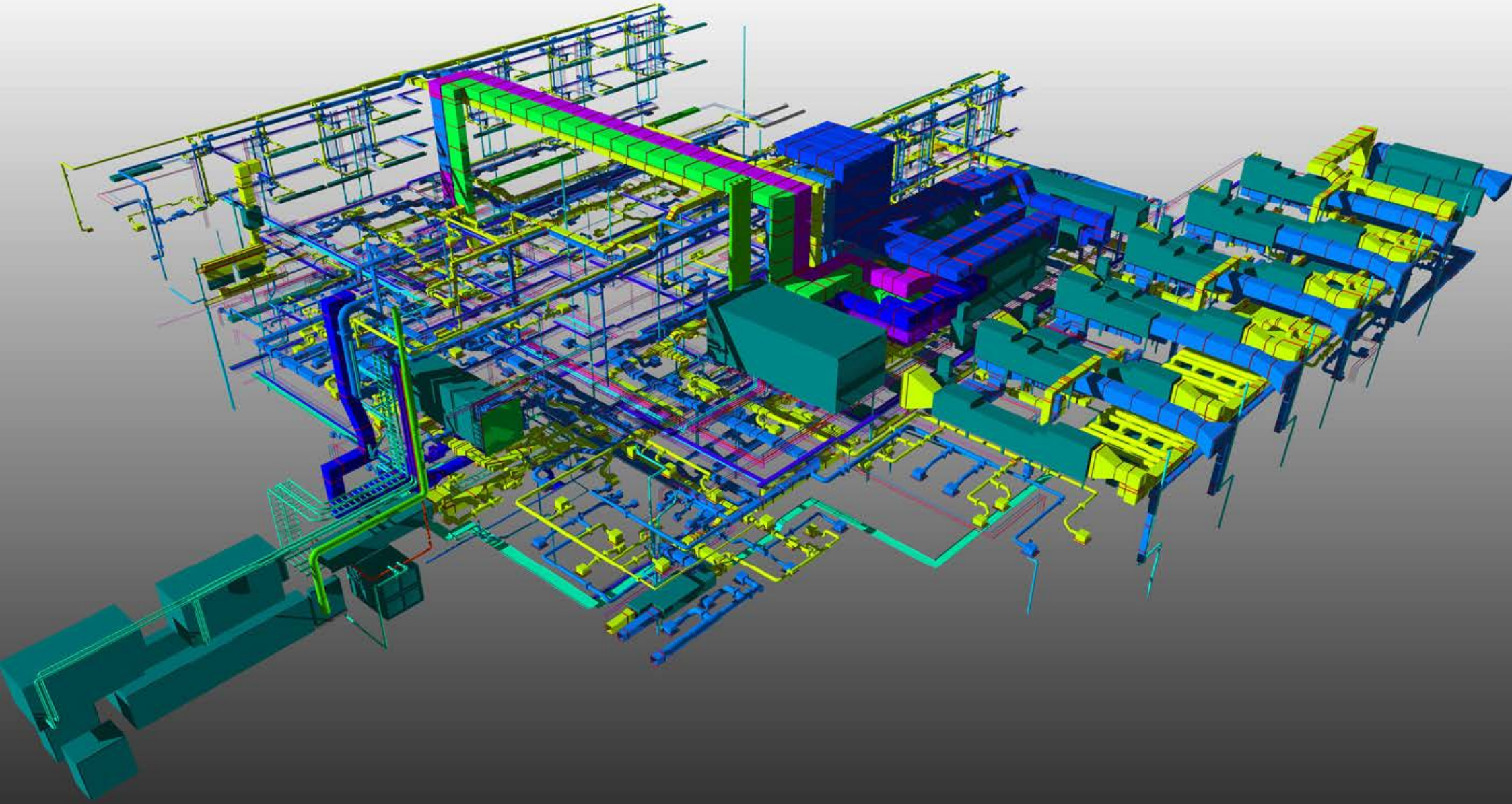
HOSPITAL CONSTRUCTION FRAMEWORK TO DELIVER UNIQUE BUILDINGS INCORPORATING STANDARDISED COMPONENTS TO MAXIMISE EFFICIENCY AND QUALITY

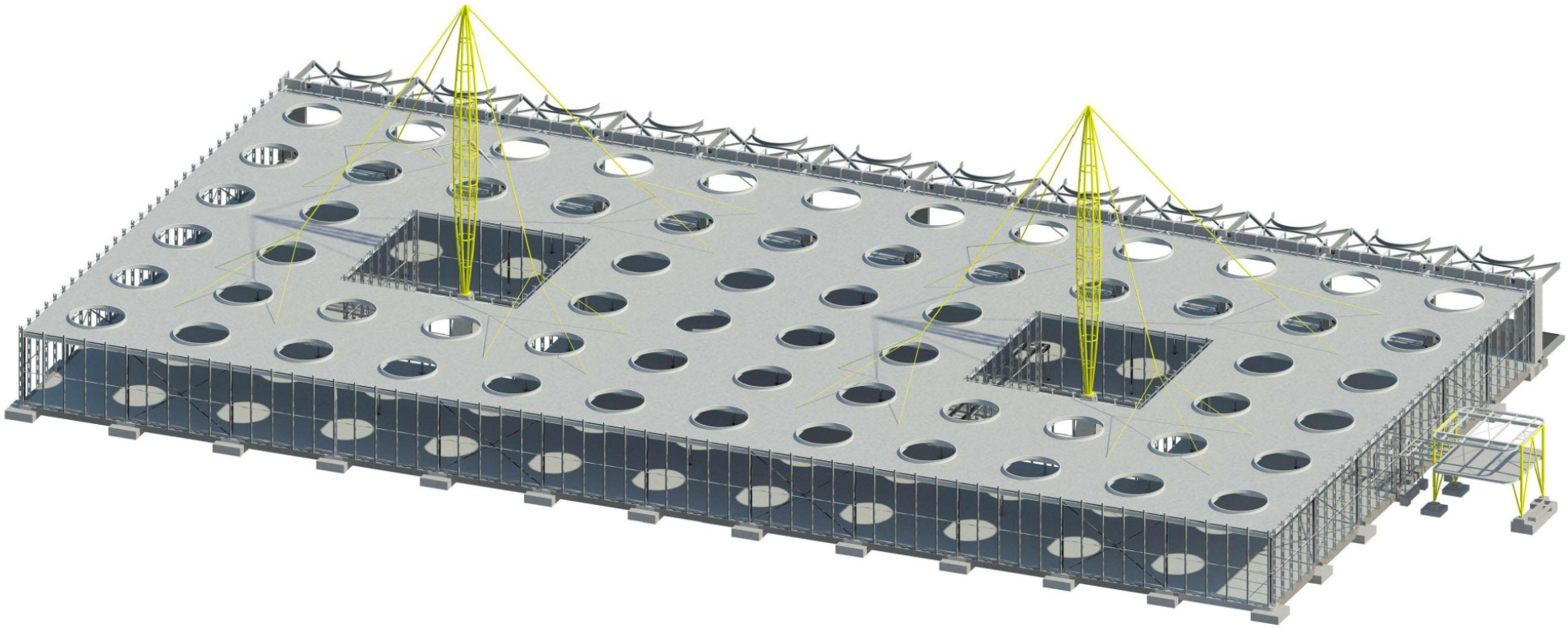
Bryden Wood has worked with Circle Health/Health Properties Management Ltd (HPML) to develop a new hospital facility in Reading to provide elective surgery through GP referral both on a private basis and as part of the expansion of patient choice within the NHS. The client is planning a total of 25 hospitals over the next 5 years and their aim is to create the UK's lowest carbon hospital facilities, buildings that are efficient to construct, maintain and run as a profitable business, while also achieving an architectural legacy.

To take this ambition forward, Bryden Wood have developed the 'HP Way', a set of processes that build upon lessons learnt from earlier schemes to guide the design of future hospitals.

A set of components and standard construction techniques (including design for manufacture) will be adopted across the framework. Each new hospital retains a specific brief while developing or repeating a significant portion of the design from previous schemes. The intention is to continually refine and improve these common elements to improve the efficiency of production of design information and the quality of the end product, while also increasing cost and programme certainty.

Appointment:
Architects, Structural, Mechanical and Electrical Engineers
Programme:
Construction May 2010
Completion May 2011
Client: Health Properties Ltd





Igus

RESEARCH AND DEVELOPMENT CAMPUS OF BUILDINGS

Igus produces 'high tech; plastic products requiring the rapid expansion and constant modification of the building fabric: the building is constructed almost entirely from compenents developed by Bryden Wood allowing complete flexibility for expansion and the recofiguartion of door opening windows and internal planning. Floor space is therefore largely column free and the space cmopletely flexible; wall panels may be changed for windows and doors by the simple removal of clamps.

Appointment:
Architecture , Mechanical, Electircal and Structural Engineering
Programme:
1992-Present
Client: Igus GmbH

Spine House

A HOUSE FOR A GERMAN INDUSTRIALIST ON A WOODED HILLSIDE OUTSIDE COLOGNE

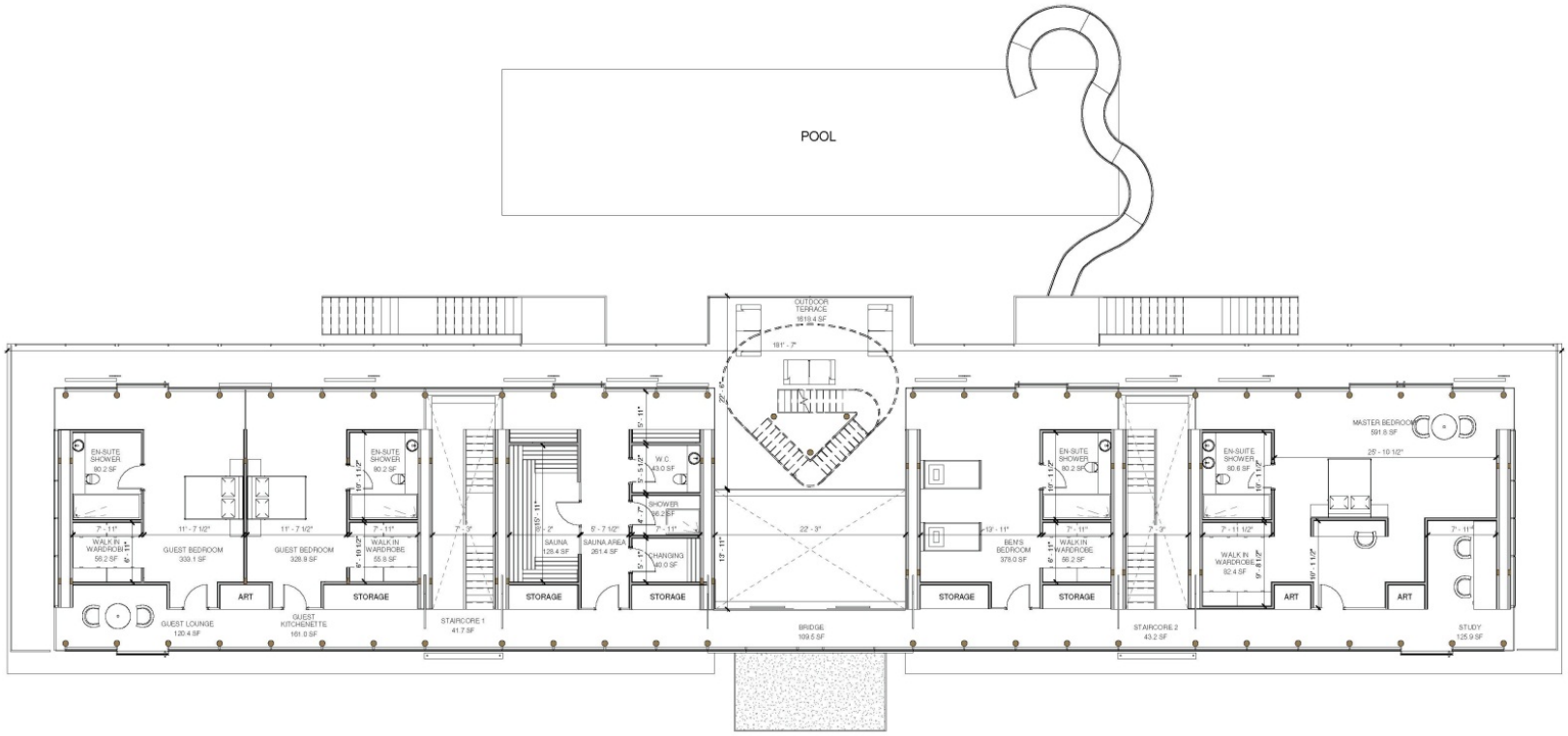
The accommodation is arranged symmetrically around a 'spine' which provides the main circulation for the house. The strength of the simple concept relies on the juxtaposition of the highly crafted spine and the overt industrial detailing of the two accommodation wings. The spine comprises a series of rings formed from laminated softwood and shaped ash supported on tubular steel legs. By contrast, the main body of the house is a clearly expressed steel frame with white plaster panels overlaid by a profiled metal ceiling. The house is entered via the end of the spine at first floor level.

The main accommodation is accessed off the spine and includes an indoor swimming pool and squash court. The end of the spine broadens to take in spectacular views and to incorporate a mezzanine level to the main living space below.

Appointment:
Architects
Programme:
Construction June 2001
Completion July 2002
Client: Private

Blase Beach House

Appointment:
Architects
Client: Private


POOL
OUTDOOR TERRACE
1619.4 SF
18' - 7"
22' - 4"
EN-SUITE SHOWER
80.2 SF
7' - 11"
WALK IN WARDROBE
58.2 SF
6' - 7"
GUEST BEDROOM
333.1 SF
11' - 7 1/2"
GUEST BEDROOM
328.9 SF
ART
STORAGE
GUEST LOUNGE
120.4 SF
GUEST KITCHENETTE
161.0 SF
WALK IN WARDROBE
55.8 SF
6' - 10 1/2"
19' - 11 1/2"
STAIRCORE 1
41.7 SF
7' - 3"
SAUNA
128.4 SF
SAUNA AREA
261.4 SF
5' - 7 1/2"
9' - 2"
19' - 11"
W.C.
43.0 SF
5' - 5 1/2"
SHOWER
66.2 SF
4' - 7"
CHANGING
60.0 SF
15' - 11"
13' - 11"
22' - 3"
BRIDGE
109.5 SF
BEN'S BEDROOM
378.0 SF
13' - 11"
8' - 11"
STAIRCORE 2
43.2 SF
EN-SUITE SHOWER
80.6 SF
9' - 11 1/2"
WALK IN WARDROBE
82.4 SF
9' - 8 1/2"
MASTER BEDROOM
591.8 SF
25' - 10 1/2"
10' - 1 1/2"
STUDY
125.9 SF

Product design and prototyping

In the modern construction industry, it is often the case that many design solutions result in the need for the production of an individual product. Bryden Wood has a history of creating such products, and developing, testing and prototyping them. We have a dedicated design department, with the necessary software and IT skills to support the process and record outcome, and our own factory where the resulting products are built and tested. The service can encompass concept design, cost advice, logistic strategies and the development of fully integrated design solutions. As part of the design process, Bryden Wood can also offer visualisation and virtual prototyping, animations of assembly and erection and physical mock-ups. On conclusion of the design and prototyping process, we can offer short order fabrication and site installation.


HDSM


HSBC
The world's local bank

EcoCanopy

A COMPONENT-BASED PREFABRICATED SYSTEM COMPRISING A SERIES OF STANDARD ROOF, WALL AND FLOOR ELEMENTS

EcoCanopy is a component-based prefabricated building system comprising a series of standard roof, wall and floor elements. The factory environment in which EcoCanopy is produced ensures a high level of quality, reliability and cost-certainty. EcoCanopy is based on a 4 x 4m plan module that can be configured to suit requirements as small as a gatehouse and as large as a school. A variety of internal spaces can be achieved, with a clear internal span of up to 8m.

EcoCanopy can be deployed in any environment where cost and program are important factors, and is ideally suited to education and healthcare applications. The high external fabric performance complements EcoCanopy's innovative HVAC systems to significantly reduce embodied energy and energy-in-use.

Sainsbury's Biggleswade

Heathrow T3 Pier 6

EFFICIENT FACTORY ASSEMBLED MODULES THAT FORM FULLY SERVICED, INTERLOCKING CORRIDOR UNITS

Heathrow T3 Pier 6 was a complex project where a passenger router has been supported between a host of existing structures. The factory assembled modules form fully serviced, interlocking corridor units, providing the only effective solution to an otherwise virtually insurmountable construction problem: a restricted access site, adjacent to an operational runway on top of an existing terminal. As well as responding to the airports drivers for speed and reduced impact it was found that the corridor product improved safety through reduced site work, quality through the manufacturing approach, and predictability through pre-engineering.

Wherever possible, pre-assembly was used to minimise on-site works and the number of deliverable components were reduced to a minimum. In addition, all modules were transportable by conventional haulage methods, reducing cost and delays.

BAA has declared that, in addition to these benefits, they experienced a 25% reduction in overall development costs, compared to a traditional form of delivery.

Appointment:
Designers & engineers for manufacture of building elements and services
Programme:
Construction November 2004
Completion February 2005
Client: BAA