

## EAST RIDING LEISURE BRIDLINGTON

<b>Client</b>	East Riding of Yorkshire Council
<b>Contractor</b>	BAM Construction Ltd
<b>Location</b>	Bridlington
<b>Completion Date</b>	May 2016
<b>Value</b>	£25million



East Riding of Yorkshire Council has sought to establish in Bridlington one of the best leisure facilities in the country. Using Building Information Modelling (BIM), the project team has successfully delivered this flagship scheme to cost and ahead of schedule and has been awarded 'BIM project of the Year' and 'Best of the Best' by Constructing Excellence.

The ERYC professional design team worked within a fully federated model, but moreover using BIM as an instrument of collaboration integrating the whole project team. East Riding Leisure Bridlington was the first project that BAM Construction was involved in where the use of BIM was client-driven. The legacy of this BIM level 2 project is a cohesive design, with eliminated construction risk and timely information exchange, resulting in a new landmark building fit for

one of the region's top seaside towns, to affirm its place as a go-to location.

As a Local Authority, East Riding of Yorkshire Council has a keen eye on developing BIM to aid its ongoing planned and cyclical maintenance programmes as well as driving down the running costs of its assets. Adopting BIM was key to its strategy in driving low energy performance targets as well as information for FM and ongoing monitoring through the BMS system.



The EIR set out clear BIM aspirations, responsibilities and outputs for the length of the project. The project's BIM execution plan was then utilised as a live tool to be monitored updated during the course of the final design and construction stages.

The use of NBS Create enabled the team to work collaboratively linking the specification clauses to components within the BIM. By referencing the system code rather than the technical description, via NBS Create negated the need to update the drawing, saving time and working in a more efficiently.

The team worked in a 3D environment from the outset of this project. Point clouds scans were utilised to explore existing buildings prior to demolition, helping to understand the site and informing the team about reuse of materials, design and construction methodology. Initial architectural designs were used to create virtual walkthroughs of the proposed scheme. This proved hugely successful used to engage stakeholders pre and post planning.

Throughout construction 3D scans were carried out to inform the as- built model with linked information and asset tags for use with the clients FM software, and BIM 360 was utilised in the snagging period to identify and collaboratively resolve defect issues.



Navisworks was utilised for clash rendition, which proved invaluable during the design stage streamlining spatial coordination processes and achieving clash avoidance, in turn eliminating problems on site which aided the contractor in completing this prestigious project ahead of schedule and within budget. Due to BIM there is a high level of certainty, thus reducing risks and delays on site. The model was also used to explore thermal and acoustic performance as well as fenestration design and fire engineering.

A full cost plan was also informed by the model and utilised throughout the project using CATO to ensure project costs were accurate.

As a result of using BIM we have brought this large project ahead of time and on budget, and to the satisfaction of all involved.

For more information contact:



Adam Holmes BSc (Hons) MSc MRICS  
Principal Project Manager  
adam.holmes@eastriding.gov.uk  
01482 395925