

Case Study

AN **idom** GROUP COMPANY

Project

DIT Grangegorman PPP
East Quad

Date

April to November 2014

Client

DIT

Budget

€80m

PPP Consortium

Eriugena

Contractor

FCC/Sisk

Architect

AHR

Structural/Civil

Idom Merebrook

Building Services

Idom Merebrook

Overview

The Grangegorman Central and East Quad PPP Project forms part of a €2.25 billion infrastructure stimulus package administered by the Grangegorman Development Authority (GDA) in Dublin. The St Brendan's Hospital site comprises approximately 30 hectares, and is located in the north inner city of Dublin, just over 1km from the city centre. The GDA aims to facilitate development of the Campus Site to include new health care facilities for the Health Service Executive and a new urban campus for Dublin Institute of Technology bringing together all 20,000 students and 2,000 staff into one location. Included within this development is the Central and East Quad Project.

Operating as part of the Eriugena consortium Idom Merebrook is responsible for the design of the civil, structural and M&E engineering aspects of the East Quad. The East Quad is a third level facility having a gross area of circa 16,000m² it is up to 6 storeys high and will cater for 2000 students and 200 staff. It includes an 800 seat performance hall, recital room, black box theatre, specialist media, teaching and workshop rooms, together with more general teaching rooms and studios.

The vision for the East Quad is to create a centre of excellence for the creative and performing arts, and media, and it will house the National Conservatoire of Ireland.

BIM has been used to fully integrate the design architectural, building services, structural and FF&E models for all elements. The design has been developed to RIAI Level 4, and the BIM design is undertaken to level of detail 3, however accuracy of pricing has required that LOD 4 to be achieved. Design has input to 5D modelling (programme and quantities take-off). The BIM approach greatly assisted the development, review and production of the large amount of submission data required for the PPP submission.



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