

Burton Gallery, York Art Gallery

City of York Art Gallery

York, North Yorkshire

SERVICES: MEP ENGINEERING DESIGN

CLIENT: YORK MUSEUMS TRUST

PROJECT DESCRIPTION:

PrestonBARBER were asked at short notice to provide Mechanical and Electrical service design for the refurbishment of The Burton Gallery within York Art Gallery. Rising to the challenge, the tender documentation incorporating full specification and drawings were prepared in a little over four weeks generally in line with the original project programme.



In order to reduce energy costs and the carbon footprint of the Museum, PrestonBARBER assisted Gelder Harvey Architects to select a suitable wall insulation to help minimise the heat losses from the Gallery. This exercise was undertaken by thermal modelling of the space and enabled the team to review several different insulation types before selecting the optimum product in terms of both thermal efficiency and cost.

In terms of heat delivery to the space, various options were considered but essentially it was agreed that the existing low level finned natural convectors needed to be retained, but a new bespoke housing was designed so that the boxing did not retract from the overall

In accordance with the original design brief, a full ventilation system was designed for the refurbished space. Location, dimensions, finish and overall aesthetics of all proposed internal and external plant and equipment was fully agreed with the Architect, Client and Conservation Officer with samples of relevant items being obtained for approval. Careful consideration was also given to the logistics and method of installation of the equipment being mounted within the roof space and on external plant decks. The practicalities of future maintenance requirements was also a consideration. Unfortunately due to budget constraints the ventilation scheme was omitted after tender stage as a result of Value Engineering.

SERVICES PROVIDED:

Mechanical

- Heating system casing
- Supply & Extract Ventilation

Electrical

- General & Decorative Lighting
- Small Power Installation
- Fire Alarms
- IT Installation & Security

Public Health

LEISURE SECTOR ARTS

TYPE: REFURBISHMENT

VALUE: £0.171M

DESIGN TEAM:

Architect -

Gelder Harvey Architects

Structural Engineer -

Bland & Swift

Main Contractor -

Illingworth & Gregory



Building Services
Consultants

2 Foxoak Park, Common Road
Dunnington, YORK
North Yorkshire, YO19 5RZ

+44 (0)1904 489622

+44 (0)1904 481928

www.prestonbarber.co.uk

info@prestonbarber.co.uk

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Competent Person Scheme
Building CO2 emissions rate calculation - Hevacomp
Certificate Number ERC3057

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In terms of display lighting, the Gallery already had a stock of track mountable spot and floodlights and as such the new track needed to be compatible with the existing installations. This assists the Gallery in being able to inter-change fittings from one Gallery to another as and when demand requires. The construction and 'rose detailing' of the Gallery's glazed barrel vaulted dictated the suspension points and layout of the new track—and as such the a number of 'design workshops' were held on site with the Lighting Manufacturer, the Client and ourselves to agree the proposals and switching arrangements.

We were also fundamental in persuading the client to include the uplighting feature within the track that illuminates the barrel vaulted ceiling. Whilst this lighting is not required for the day to day art exhibitions, it is a feature that enhances the overall aesthetics of the Gallery when the space is utilised for evening functions and events.



Flush floor sockets recessed in the timber flooring provide the electrical supplies to free standing display cabinets, with additional power and data outlets wall mounted around the Gallery for general use.

Existing IT, security and fire alarms installations were modified and extended to suit the requirements of the refurbished Gallery.

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