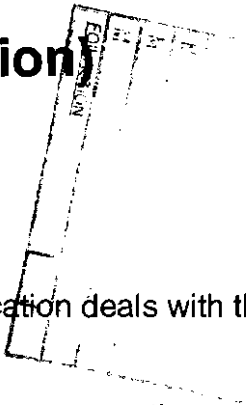
Sense of Place- Architectural Lighting (Planning Application)



Supporting Information

1.0 BRIEF DESCRIPTION:

Sense of Place project set up to improve both Petersfield and areas of the City's waterways, this application deals with the workpackage for architectural lighting on the Rochdale Canal.

The waterways pass through the heart of the city providing links between different areas however they are currently not used to their full potential due to poor signage, poor accessibility and fear of crime. The canals host fine architecture and urban spaces which add to the city's offering to both visitors and residents. Lighting these areas will make the canals more user friendly, help to reduce fear of crime and highlight the architecture. The aims of introducing architectural lighting to the specified sites are to attract and retain visitors to the canals.

The proposals have been designed up in Liaison with Manchester City Council Street Lighting, British Waterways, Mersey Basin campaign, City Centre Management Company. All locations identified are under Manchester City Council ownership. In terms of the long-term maintenance of the lighting installations, we are only using quality fittings which have been tried with low energy, maintenance and long life. All the installations are to be included within the current Manchester City Council Lighting PFI maintenance agreement.

2.0 LOCATIONS / PLANS

Architectural Lighting Improvements have been identified to be installed in four locations along the Rochdale Canal:

i) Deansgate Tunnel
ii) Albion Street Canal Bridge
iii) Bridgewater Basin
iv) Oxford Road Canal Bridge

Site Plan showing all Locations on the Rochdale Canal

Individual Site plan for each

3.0 LIGHTING PROPOSALS

Deansgate Bridge

- Daytime pictures of Bridge





Lighting Proposal

- Arrows show proposed positions of luminaires



Led Spot across under bridge beams (Red Green or Blue) – Green Arrows



Led Spot on Bridge Facade White Light – Red Arrows



Led Beamer NB White for Tunnel name on façade – Blue Arrow





17 no. white LED spots, 3 x LED 12 degree, with 17 no. 24v PSU drivers to illuminate 17 of the 50 steel beams (every 3rd beam) on the underside of the tunnel (positioned at the inaccessible side of the waterway).

5 no. Power core colour changing LED RGB colour blast floods with 1 no. RGB i player controller and data enablers, all for installation to the underside of the bridge, (white for the steel beams and colour changing for lighting the water)

2 no. LED floodlights to illuminate the integral "Deansgate tunnel" stone plaque and the front fascia. 1 no. warm white for the stonework and 1 no. cool white to illuminate the steel section.

Lighting Visualisation - Blue

- **Visualistion to show what installation may look like. It does not use luminaire photometry so the result on site may be different to that show**



Led Spot across under bridge beams Blue



To illuminate the underside of the tunnel and the lock gates at one end utilising LED floodlights. The LED floods will be positioned on the inaccessible side of the waterway (to avoid vandalism) and will be installed by means of a canal barge The electrical works will allow for all necessary cable network installation, conduit, trunking, weatherproof enclosures, bespoke bracketry and the installation of the LED floodlights.

Albion 99 Bridge

- Daytime pictures of Bridge





Lighting Proposal

- Arrows show proposed positions of luminaires



Led Spot across under bridge beams (Red Green or Blue) – Green Arrows



Led Flood Variable Beam White for Bridge Facade – Magenta Arrows





Supply of 7 no. white LED spot 3 x LED 12 degree, with 7 no. 24v PSU drivers and 3 no. Power core colour changing LED RGB colour blast floods with 1 no. RGB I player controller and data enablers, all for installation to the underside of the bridge, (white for the steel beams and colour changing for lighting the water)
2 no. white LED Floods 9 x LED 30 degree, 1 for each face of the bridge.

Lighting Visualisation - Blue

- **Visualistion to show what installation may look like. It does not use luminaire photometry so the result on site may be different to that show**





Led Spot across under bridge beams Blue

Installation

To illuminate the underside of the Bridge (17 steel beams) and the 2 end faces utilising LED floodlights as per above 2 options. (The proposal is for 7 no. on the underside, and 1 no. to each of the 2 faces.) The LED floods will be positioned on the inaccessible side of the waterway (to avoid vandalism) and will be installed by means of a canal barge that will be suitably modified to incorporate a working platform. All subsequent Method Statements with relevance to this aspect of the works will be submitted for approval, prior to commencement.

The electrical works will allow for all necessary cable network installation, conduit, trunking, weatherproof enclosures, bespoke bracketry and the installation of the LED floodlights.