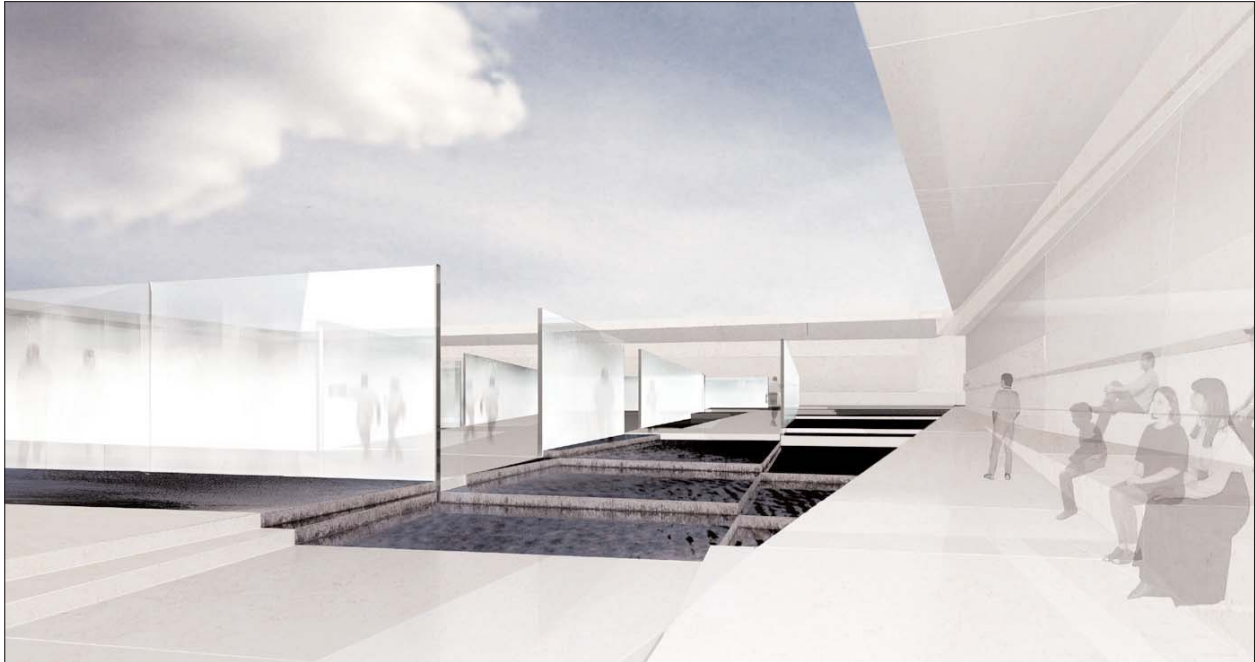


BATTLE McCARTHY®

Consulting Engineers & Landscape Architects



PROJECT:

World Trade Center Memorial / New Day Memorial

CLIENT:

Lower Manhattan Development Corporation

ARCHITECTS:

ATM

BM SERVICES:

Sustainability & Technical Consultants

VALUE:

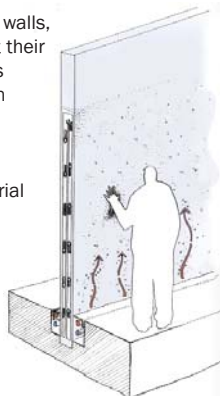
Classified

DESIGN BRIEF

A pair of memorial spaces to commemorate those lives lost in the attacks on the World Trade Center towers destroyed in the attacks of 9/11 and the car bomb attack of February 1993.

A completative series of glass and water walls, etched with the names of those who lost their lives are complimented by misted glass screens where visitors can leave their own messages and tributes on the ever-changing surfaces.

The scheme also includes private memorial spaces as well as resting places for the unidentified remains.



London UK Office
T: +44 (0)20 7440 8282
F: +44 (0)20 7440 8292
E: admin@battlemccarthy.com
www.battlemccarthy.com

DESIGN INITIATIVES/ACTIONS UNDERTAKEN

The glass walls are intended to be covered in a fine mist, allowing images and messages to be traced on them like on a steamed-up mirror. To achieve this in a city like New York with its wide climatic variation, required careful consideration of both the site and layout of the walls, and how to maintain a low enough glass surface temperature to form the condensation in the summer heatwaves, and to prevent frost and ice forming in winter.

Detailed site analysis was undertaken with a physical model to contemplate the overshadowing and wind exposure of the former tower footprints. This allowed us to comment on the positioning of the misted screens in order to utilise the shaded areas of the site where the glass was subject to less solar gains.

A technical response was used from a winning earlier memorial submission for the Pentagon New Day Memorial, also with ATM. This uses a groundwater loop to pump controlled temperature water through the centre of the glass screens to provide the surface temperature required for the condensation. It also allows the run-off condensate to be re-circulated, reducing the energy required to maintain the memorial.

