

BATTLE McCARTHY ©

Consulting Engineers & Landscape Architects



PROJECT:

National Institutes of Health, Maryland, USA

CLIENT:

Department of Health and Human Services

ARCHITECTS:

RTKL

BM SERVICES:

Sustainable Masterplanning, Environmental Analysis,
Building Services (MEP) Engineering
& Landscape Architecture

VALUE:

Classified

DESIGN BRIEF

To develop a sustainable campus masterplan and sustainable building guidelines for the National Institutes of Health (NIH) medical campus in Bethesda, Maryland. NIH is a world leader in medical and clinical research, so the approach focused on integrating environmental, economic and health and wellness concerns for a whole range of subject areas.

DESIGN INITIATIVES/ACTIONS UNDERTAKEN

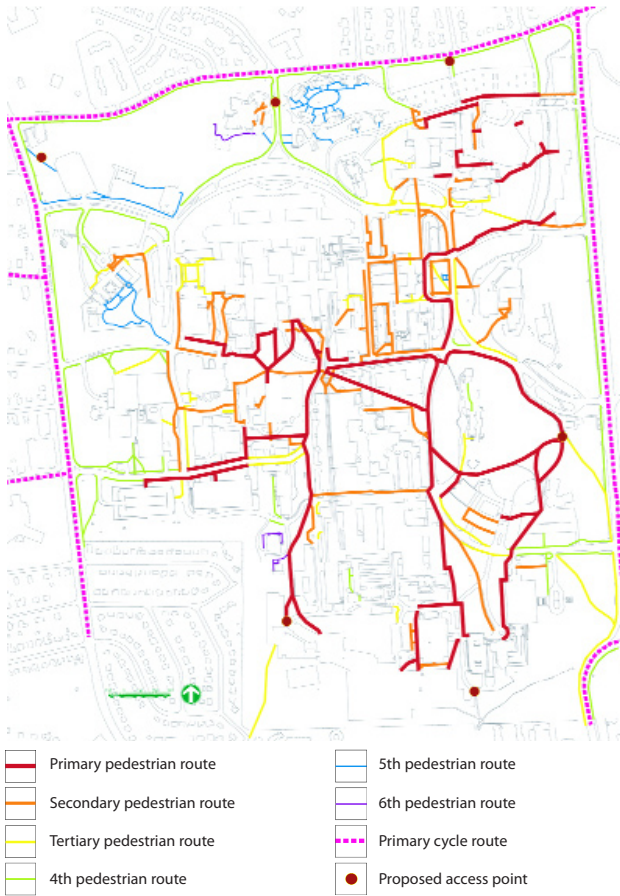
Battle McCarthy was appointed to develop a sustainable design strategy for the overall site and buildings on-campus. Opportunities explored included:

- Integrated landscape masterplan.
- Ecological restoration of the campus.
- Water conservation and reclamation.
- Improved campus-wide human comfort.
- Energy efficiency for buildings.
- Renewable energy production on campus.
- Sustainable transport options.
- Waste and recycling.
- Life-cycle costing.

During this process, the need for a tailor made sustainable auditing mechanism (SAM) was identified, that combined the benefits of LEED (USA), BREEAM (UK) and specific NIH needs (Health).

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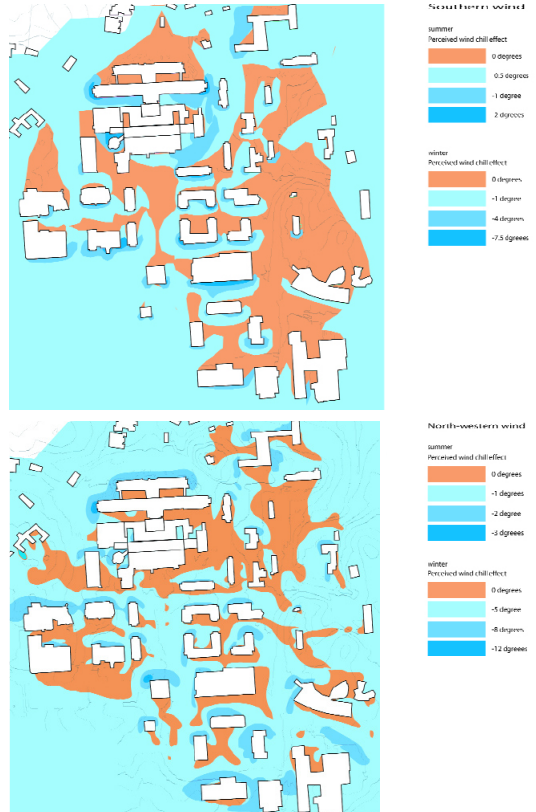
Pedestrian and Cycle Movement



Energy Conservation



Comfort



A sustainable masterplan report was developed which:

- Set out the key principles of a sustainable masterplan and outlined the key targets and indicators for monitoring progress.
- Provided an overview of the survey work carried out to date and indicated where further work would be required to provide a baseline assessment for measuring targets and indicators.
- Provided an overview of the analysis, outlining both constraints and opportunities for the full range of subject areas.

Design concepts and strategies were developed for:

- Functions
- Views and Vistas
- Level change and Landform
- Buildings related to Landscape
- Ecology
- Parking
- Stormwater
- Sustainable Modes of Transport
- Energy Conservation
- Microclimate

A number of detailed study papers were also developed:

- Campus Landscapes
- Environmentally Responsive Landscapes
- Native Landscapes
- Learning Landscapes
- Healing and Therapeutic Landscapes
- Low Allergy Landscapes
- Green Roofs
- Green Travel Plans
- The Sustainable Campus
- Rainwater Harvesting
- Water Reclamation and Management