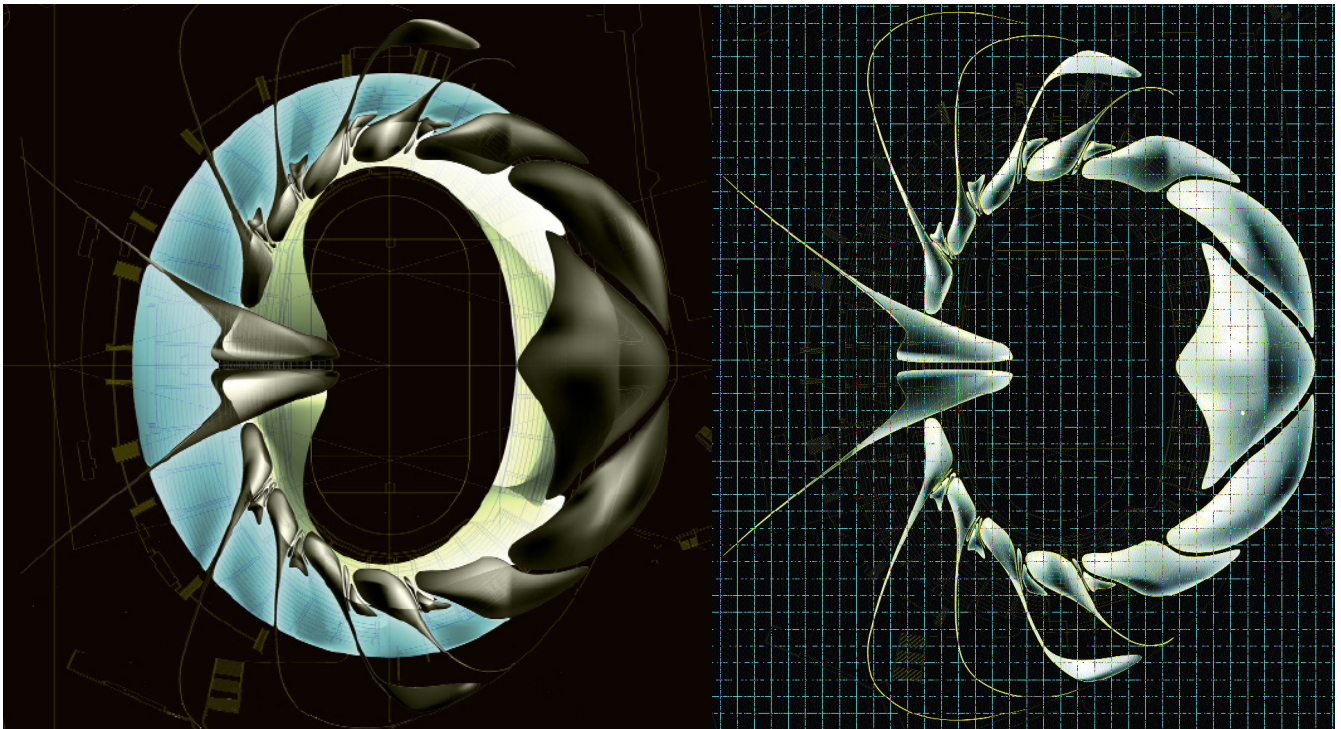


BATTLE McCARTHY©

Consulting Engineers & Landscape Architects



PROJECT:

Niedersachsen Stadium, Hamburg

CLIENT:

Niedersachsen Stadium

ARCHITECTS:

Marc Braun

BM SERVICES:

Structures and sustainable concept design

VALUE:

Classified

DESIGN BRIEF

Competition entry for the structural design of the Niedersachsen Stadium roof and concept design for a general sustainability framework.

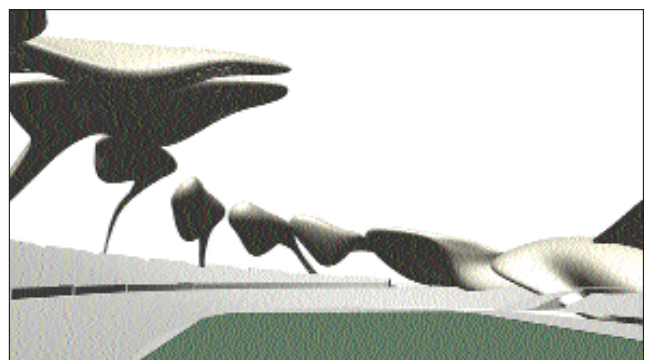
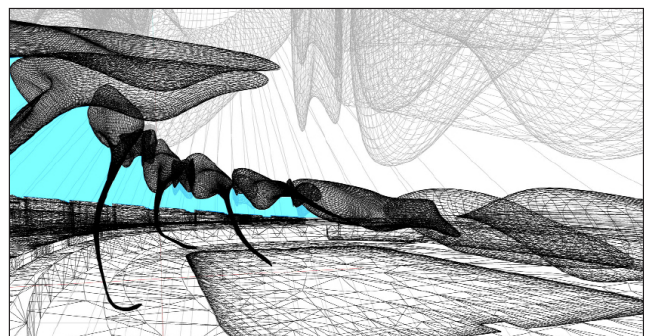
An environmentally conscious approach was sought to enhance the local environment and to impact energy use.

DESIGN INITIATIVES/ACTIONS UNDERTAKEN

The structural design incorporated the analysis of its composition and behaviour and included secondary structure and the integrated design of energy sources within the structure.

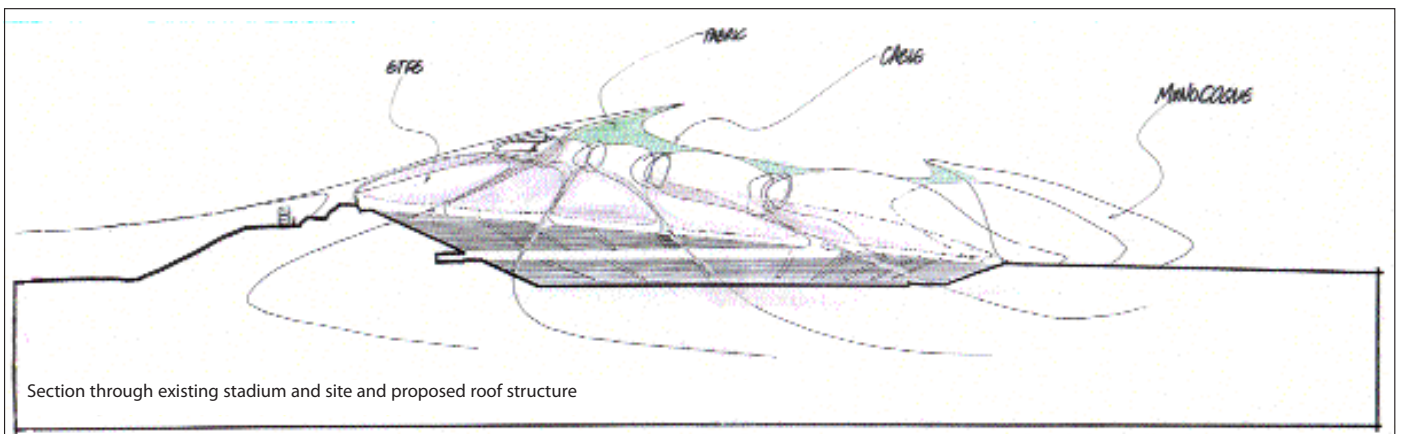
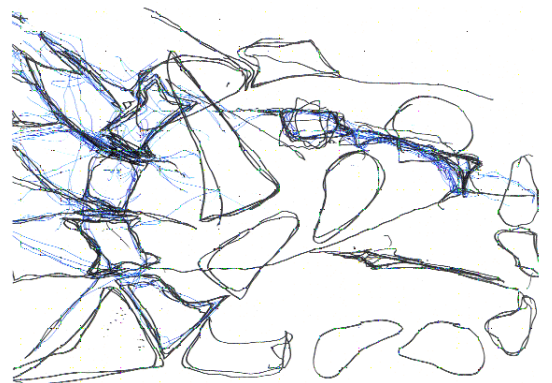
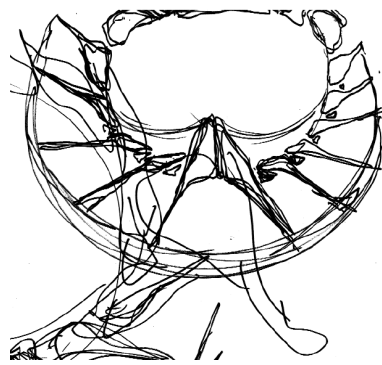
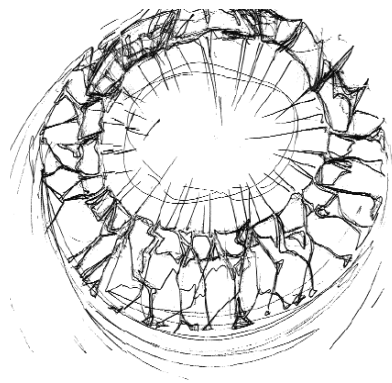
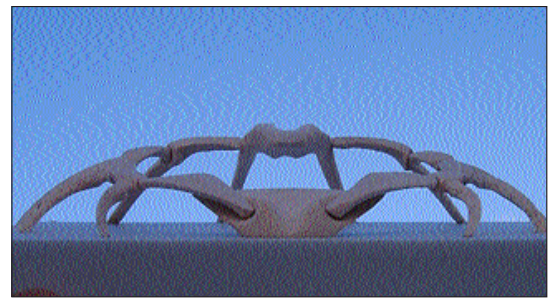
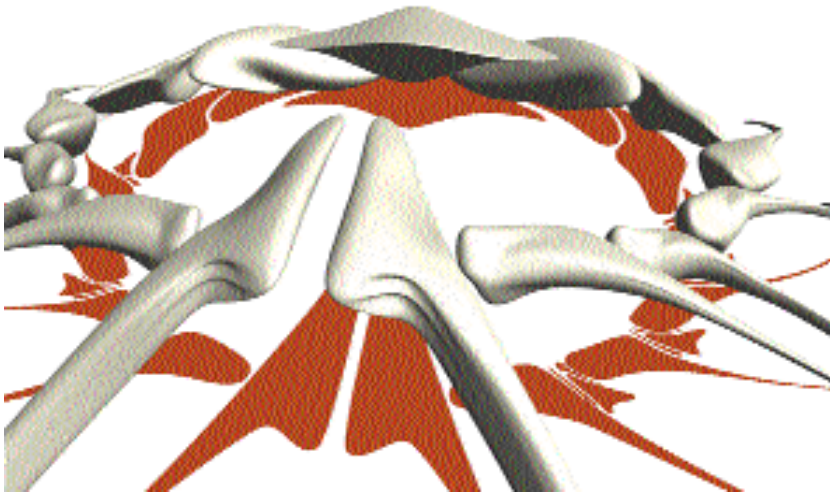
Analysis of the site and environment also resulted in recommendations for the enhancement of the existing stadium through the design of;

- landscape and ecology
- waste management and recycling
- building form and landscape
- water collection & recycling
- energy strategies



Form finding for the roof structure

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Section through existing stadium and site and proposed roof structure