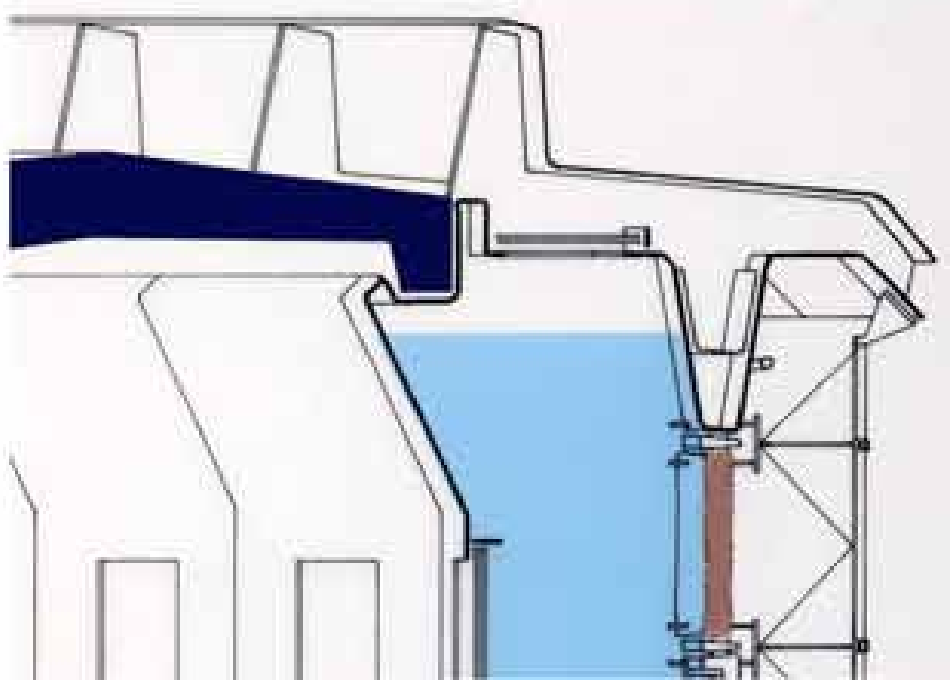
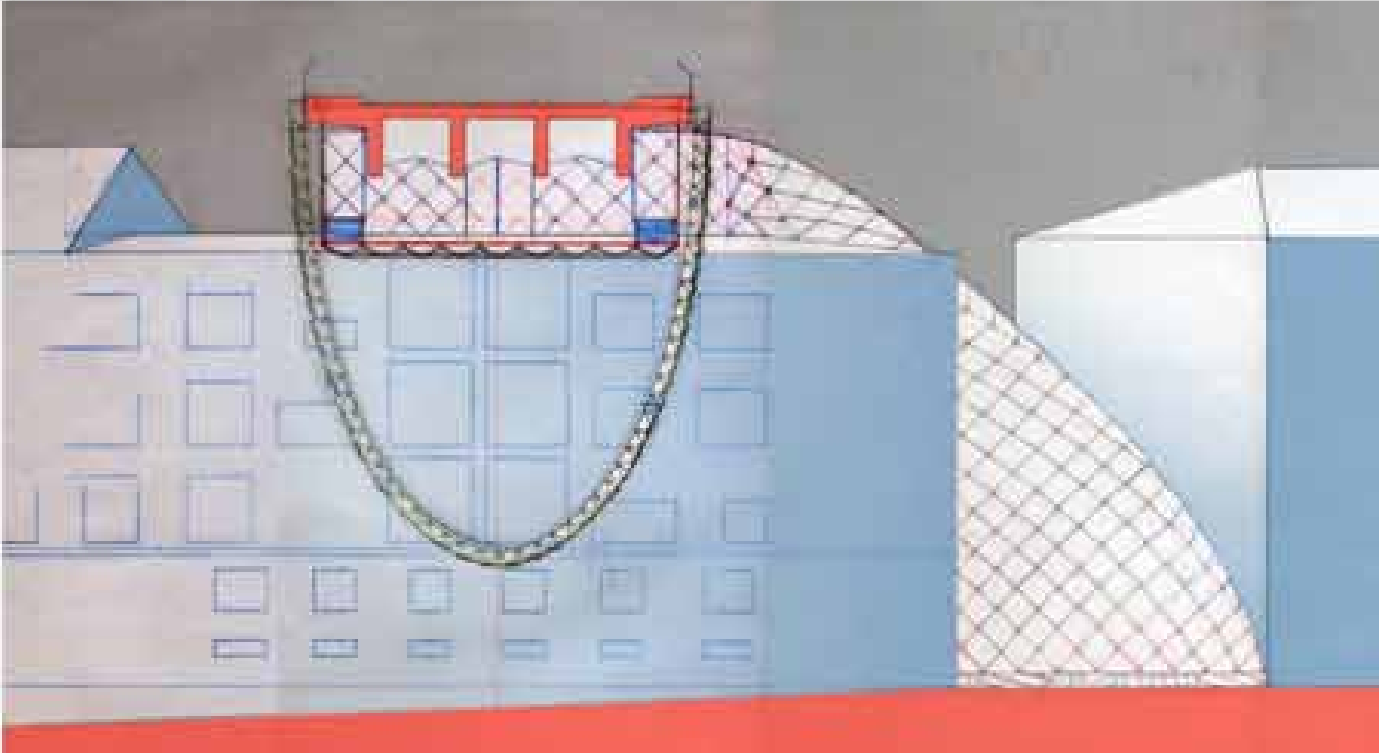
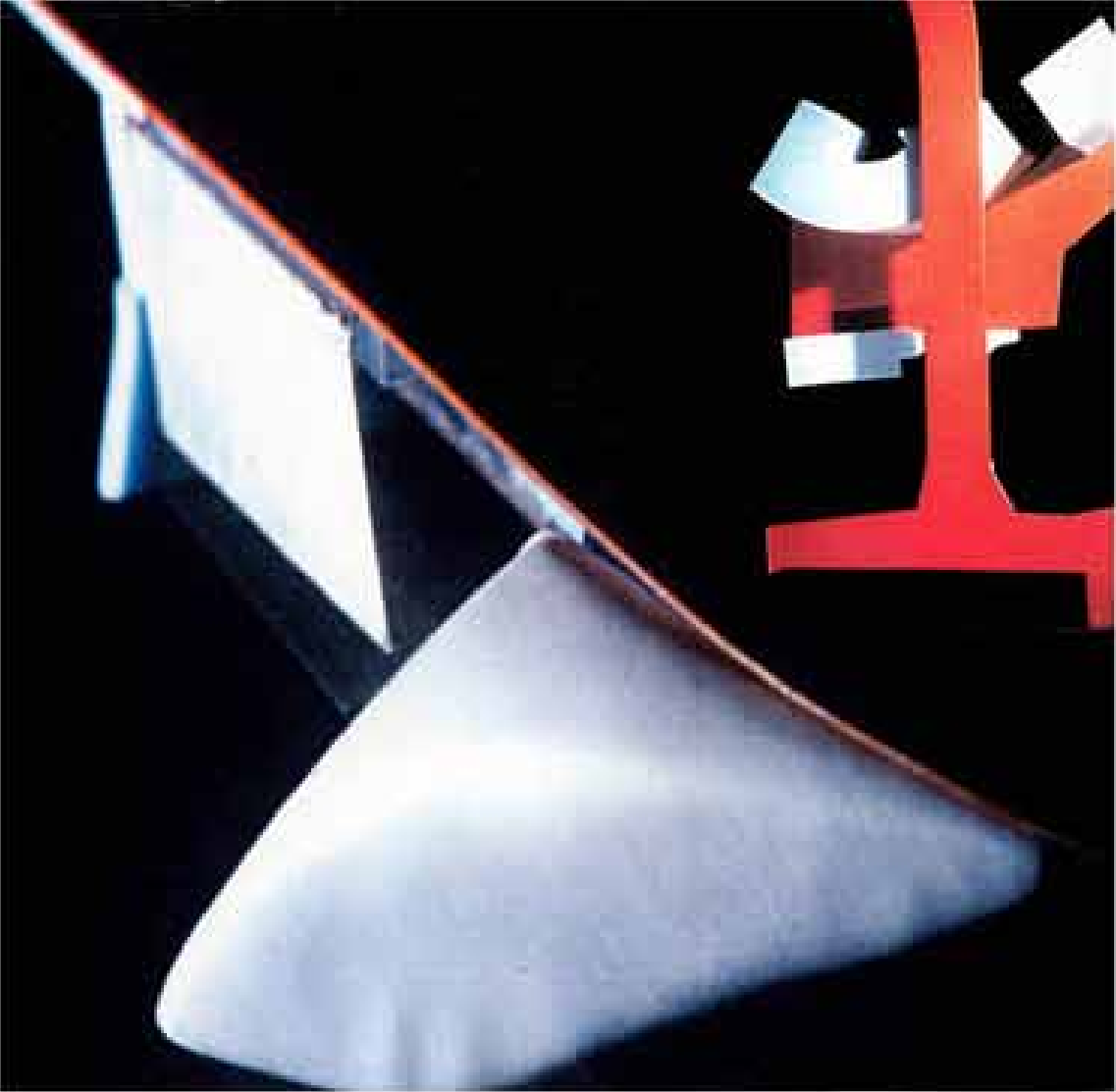


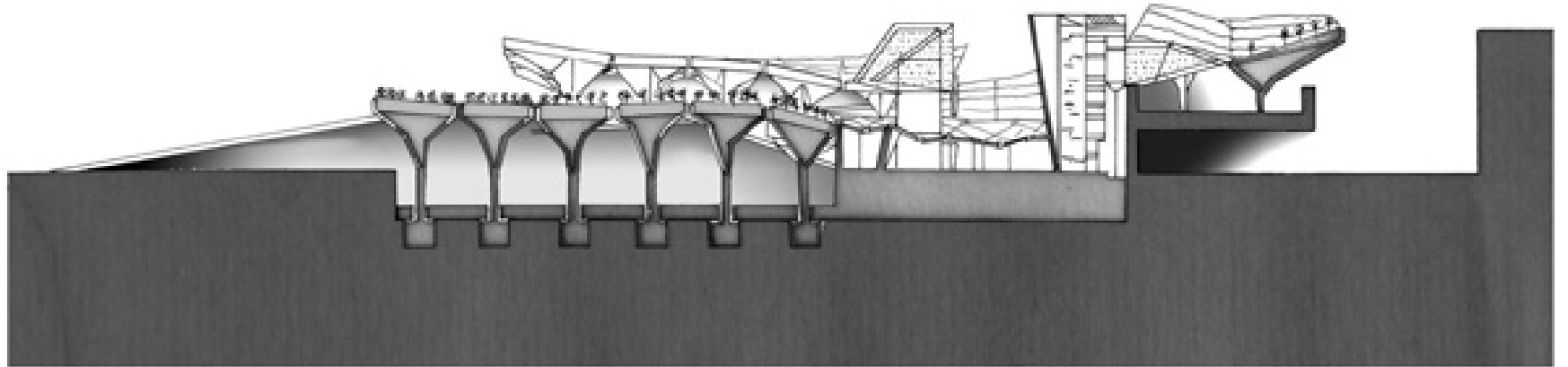
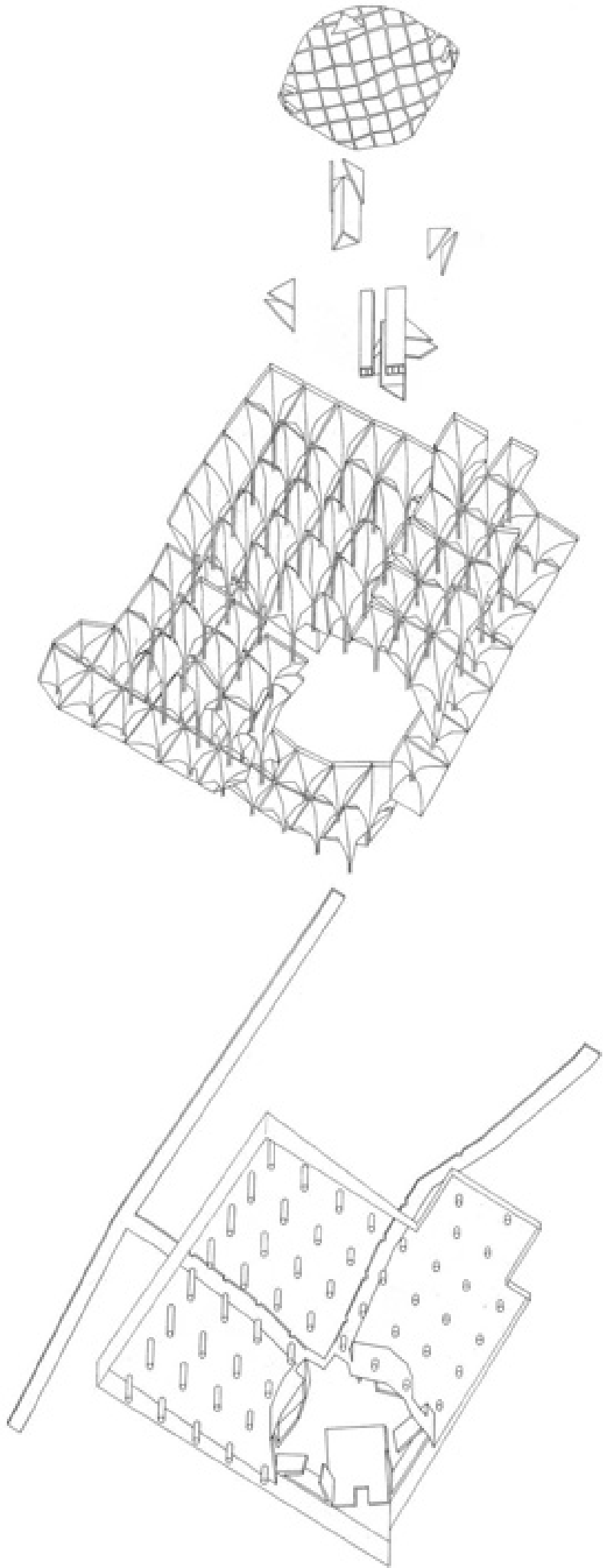
T C Matthew
 EXAMPLES OF WORK
 UNDERGRADUATE STUDIES
 1995 - 1998

Santa Monica Museum of Geosciences /
 Mass Media Centre, L'Aquila, Italy /
 The Shoreditch Exchange, London /

© Bartlett School of Architecture, UCL
 (also Bat House Competition, 2007)







PROJECT STATEMENT

This wildlife conservation project incorporates sustainability and potential replication by providing a framework for community participation and authorship, shaped by application of the following environmentally and economically conscious construction principals: Use of readily available and inexpensive building components, off-site fabrication, and reused, recyclable and sustainable-source materials.

'POPULUS CHIROPTERA'

Two artificial woodland structures mimic the rustle of the existing poplar trees along the river, integrating with bat route finding to provide cover from predators between this green corridor and the LMC site, forming a safe junction for commuting bat traffic. These decoys readily incorporate detection equipment and combine to form a well-placed monitoring station for bats in flight and at rest.

The 'Populus Chiroptera' occupy an existing partial gap in the tree-line defining the visible site edge, and can be made to 'drop' coincident with the existing deciduous trees for maintenance and adjustment, an opportunity for visitor participation activity.

BAT HOUSE

Below these, an upturned 'ark' provides a cosy and cavernous interior with a broad range of lighting and ventilation conditions attractive to British bat species, its timber structure facilitating programmed alteration to improve its suitability as container for diverse roosting sites.

Inside and out, the structure hosts a varied array of home-made bat houses provided by local and far-flung community groups. These collaborative prototypes are monitored as integral elements of the project.

NERVE CENTRE

At LMC ground level and beneath the Bat House, a shipping container hosts a walk-in website interface between visiting public and resident bat, where archive and real-time data relating to traffic and roosting can be researched and viewed.

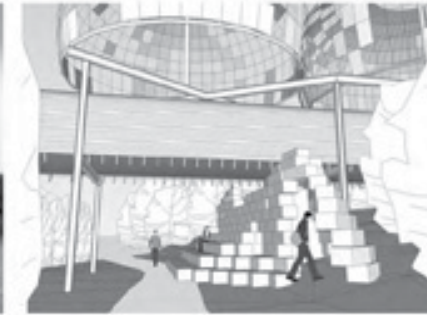
A precise stack of straw bales insulates the Nerve Centre, and forms clear access points and a stepped bank facing the existing willow fence at the lagoon edge, providing a restful outdoor visitor space.



Location Plan / Aerial View



Context Photograph: View looking West across Thames to LMC Site



Model View - Approach from South



Context Photograph: View looking South over LMC Lagoon



Model View - Isometric from Northwest



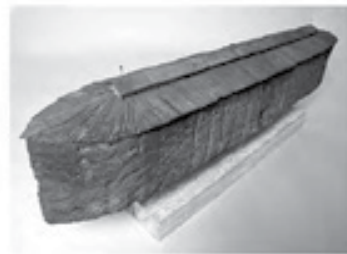
Reference: Artificial Woodland Structures



Reference: Collapsible Lightweight Form



Material Detail: Close for 'Populus Chiroptera'



Reference: Familiar Species Conservation Vessel



Reference: Informal High Density Housing



Material Detail: Typical Bat House Eaves



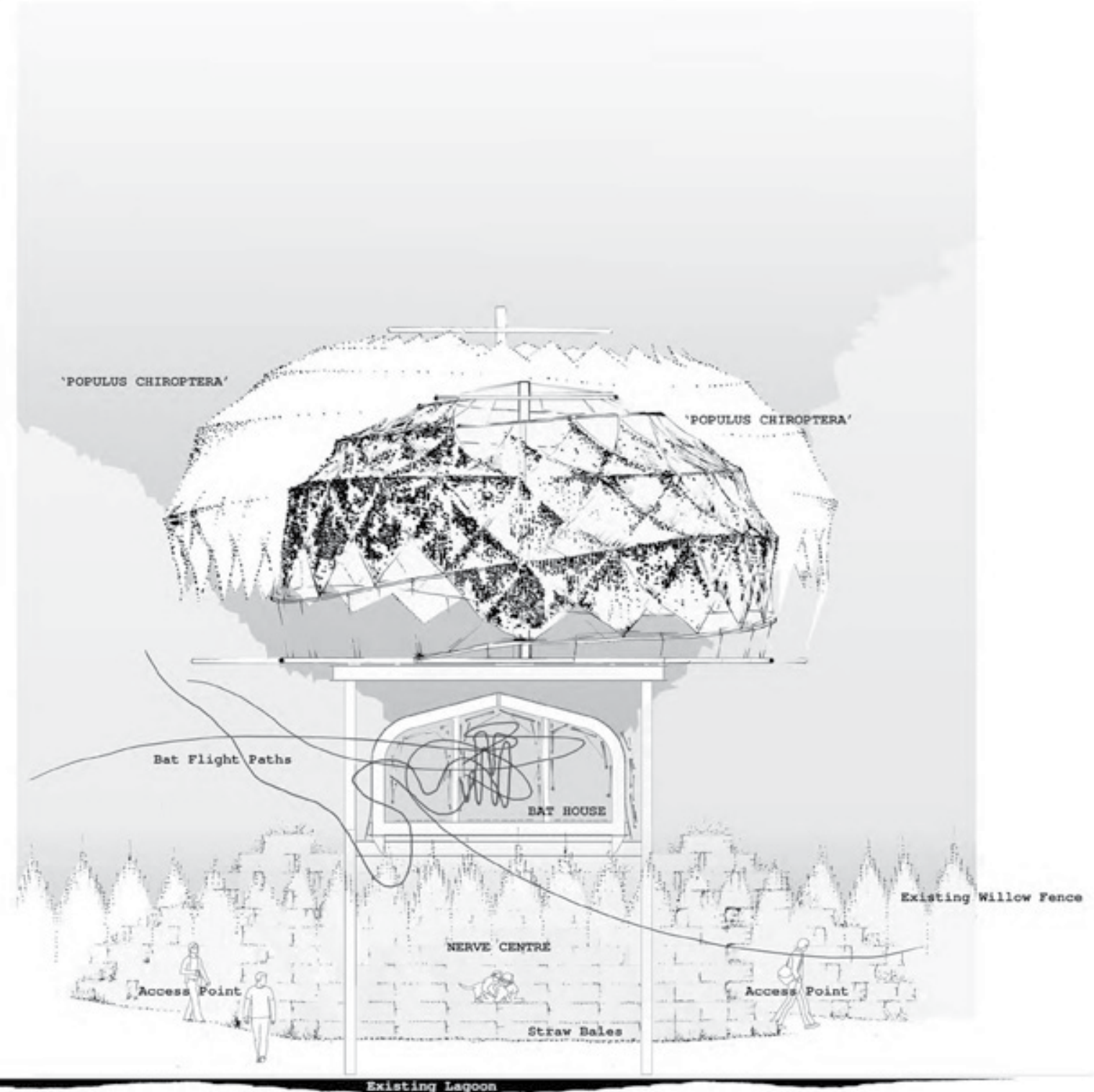
Reference: Tactile and Adaptable High Thermal and Acoustic Insulation



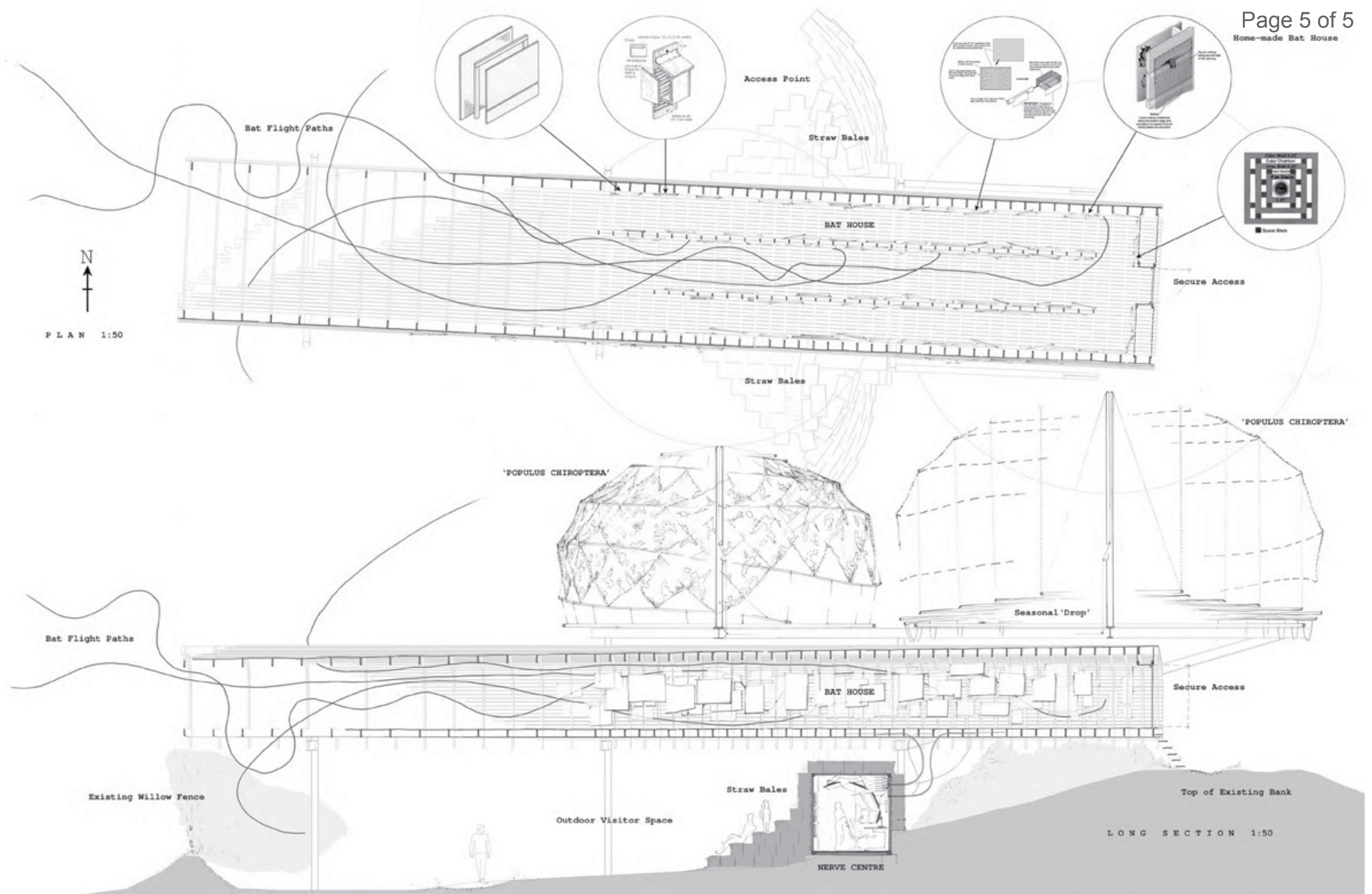
Reference: Ready-made, Weatherlight, and Secure



Material Detail: Outer Wall for Nerve Centre integrates with Surrounding Landscape



ELEVATION TO LAGOON 1:50



PLAN 1:50

LONG SECTION 1:50

Existing Lagoon