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Advanced Rural Eco Housing

Neill Lewis

David Olivier



WEST ELEVATION

BASEMENT
NORTH [ENTRANCE] ELEVATION

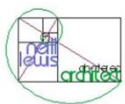
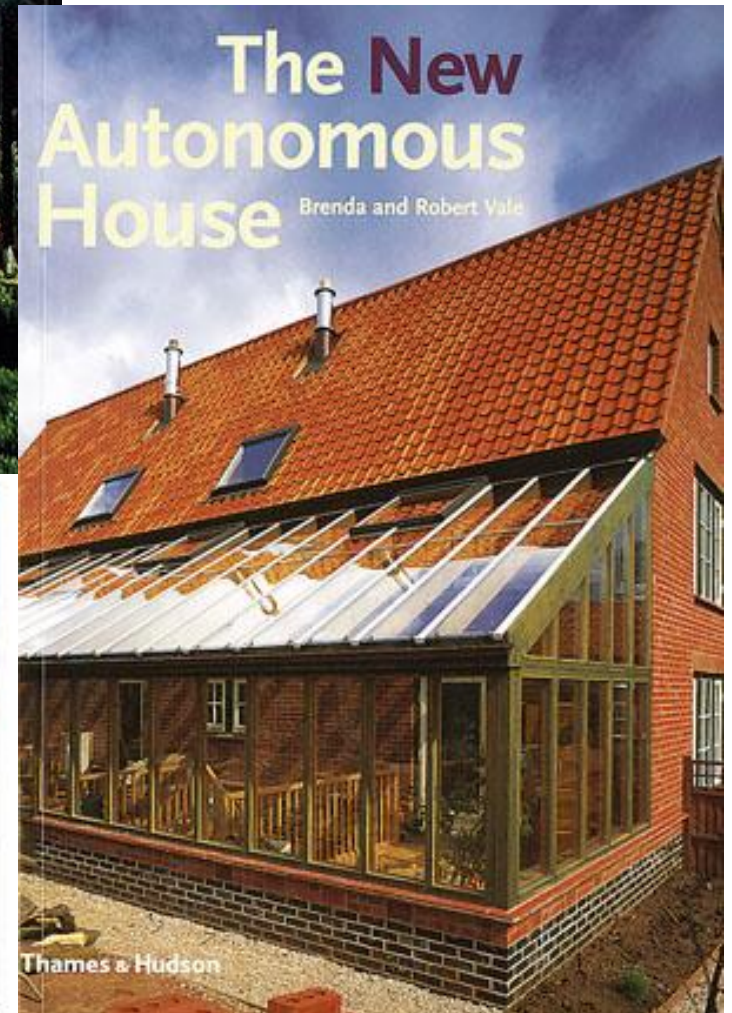
THE CROPTHORNE AUTONOMOUS HOUSE



EAST ELEVATION



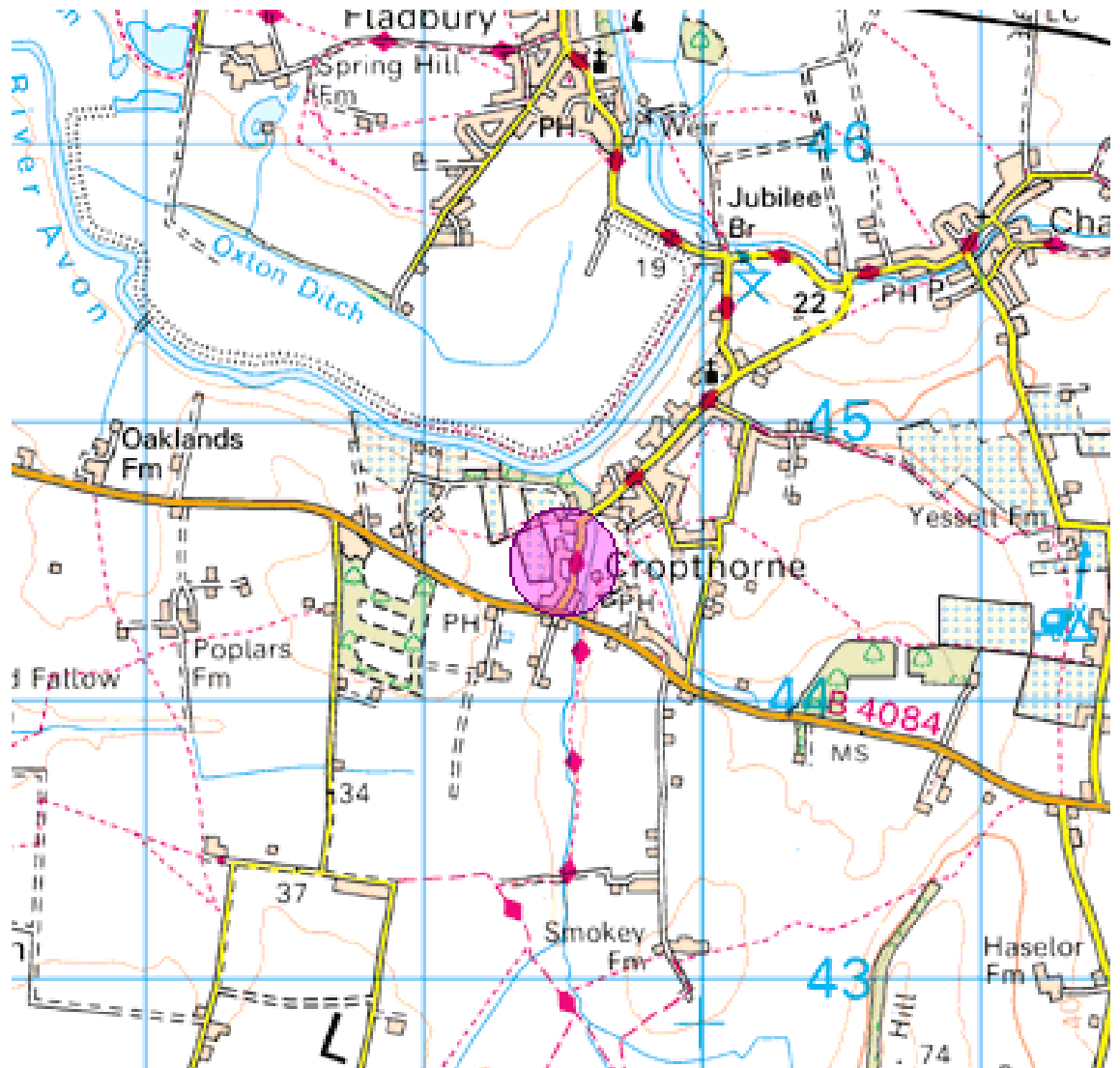
SOUTH ELEVATION

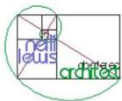


CROPTHORNE AUTONOMOUS HOUSE

Crothorne

20 km E of Worcester, 5 km W of Evesham

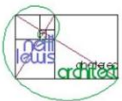




CROPTHORNE AUTONOMOUS HOUSE

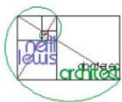
THE DESIGN AIMS

- MINIMAL IMPACT ON THE ENVIRONMENT
- AS FAR AS POSSIBLE, OBTAIN EVERYTHING IT NEEDS FROM THE LAND AROUND IT
- ATTRACTIVE & PROVIDE A PLEASANT, COMFORTABLE LIVING ENVIRONMENT
- NOT LAVISH, BUT 'SUFFICIENT'



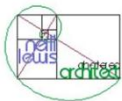
FOR THE SERVICING NEEDS:

- MINIMAL HEATING
- THERMALLY MASSIVE
- VERY HIGH LEVELS OF INSULATION
- HIGHLY EFFICIENT WINDOWS:
MINIMUM HEAT LOSS, MAXIMUM SOLAR HEAT GAIN



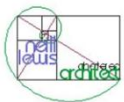
FOR THE SERVICING NEEDS:

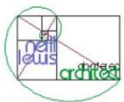
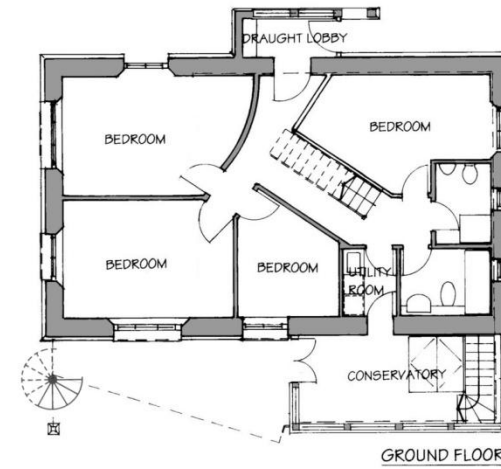
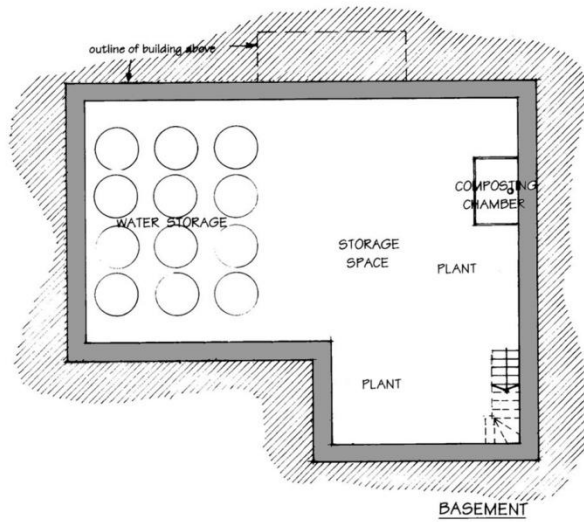
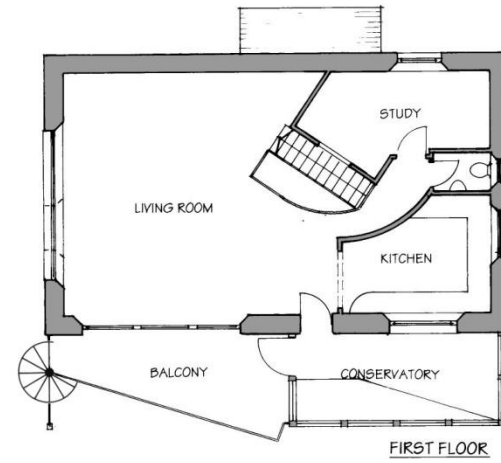
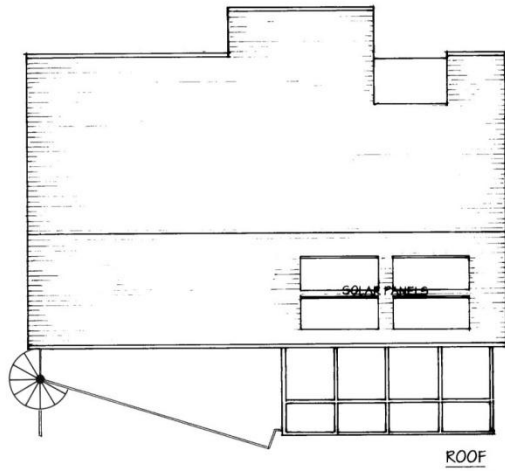
- AIRTIGHT TO REDUCE HEAT LOSS
- A MECHANICAL VENTILATION SYSTEM TO RECLAIM HEAT FROM THE EXTRACTED AIR
- REDUCED NEED FOR ARTIFICIAL LIGHTING
- NO MAINS WATER OR WASTE CONNECTIONS
- MINIMAL USE [IF ANY] OF IMPORTED ELECTRICITY

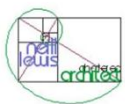


MATERIALS

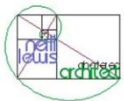
- MINIMAL ENVIRONMENTAL DAMAGE



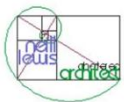




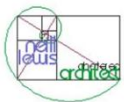
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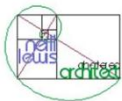
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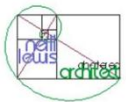
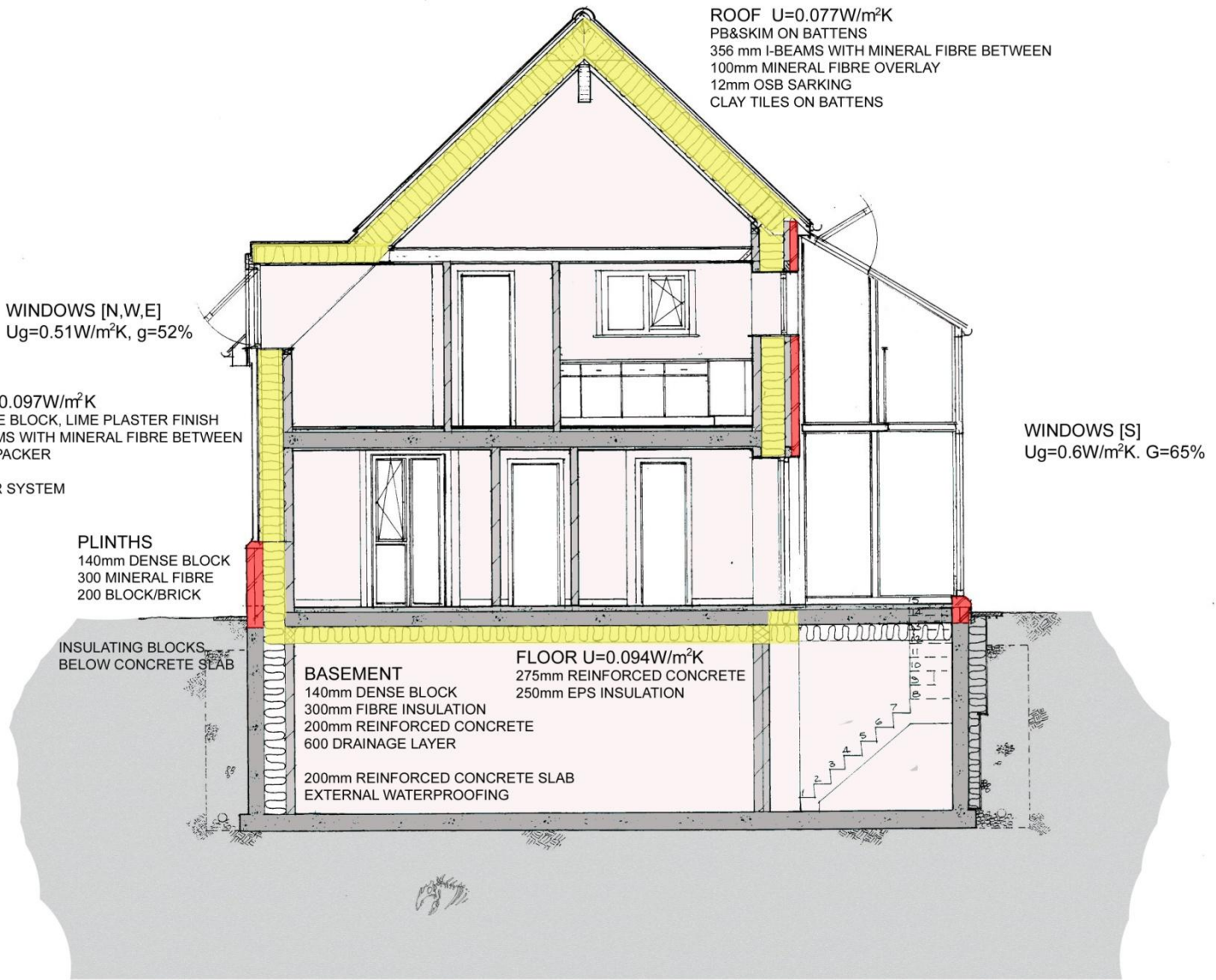
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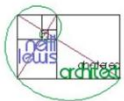
Google - Map data Tele Atlas



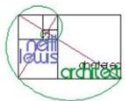
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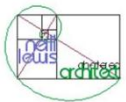
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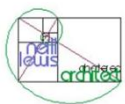
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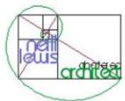
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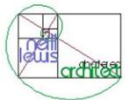


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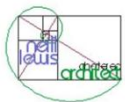


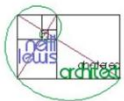
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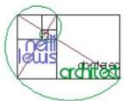


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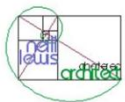


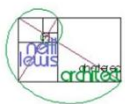


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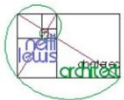


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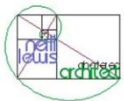




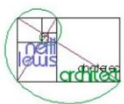
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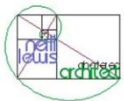
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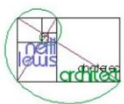
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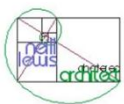
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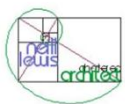
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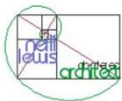


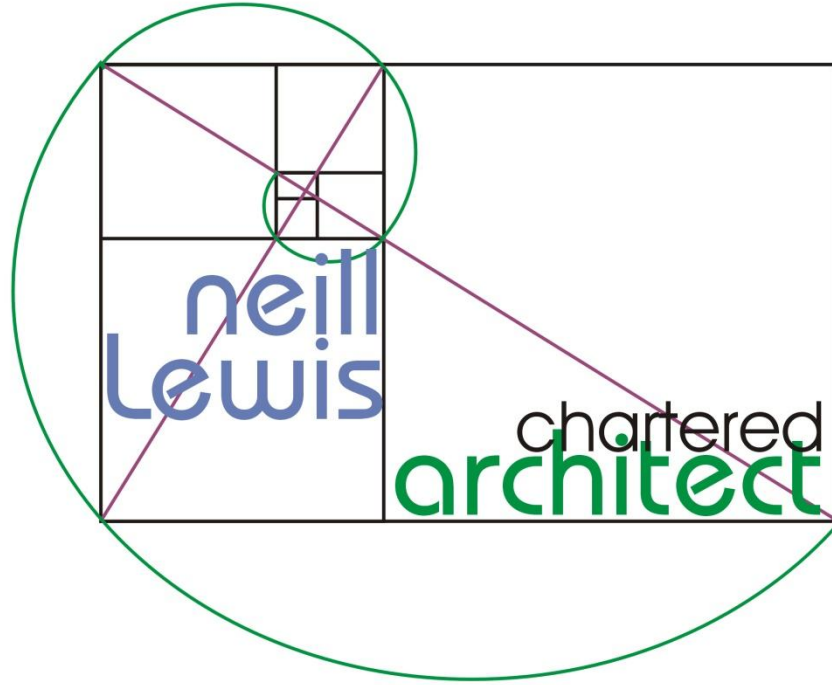
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Client

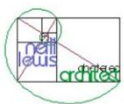
Mike Coe and Lizzie Stoodley

Architect Neill Lewis Chartered Architect	Energy Consultant David Olivier, Energy Advisory Associates
Structural Engineer Stuart Derbyshire	Project Manager Mike Neate, EcoDC on site Graham King, QS
Local Authority Wychavon District Council	Building Control ACT Building Control Ltd
Groundworks Contractor LeBrun Building Contractors	General Contractor EcoDC
Windows and Doors Optiwin Alu2Wood supplied by Green Building Stores	Solar Thermal Panels Velux supplied & installed by Llanisolar Ltd
MVHR Paul Thermos 200 Unit System designed and supplied by Green Building Stores, Andrew Farr	Insulation Knauf mineral wool supplied by Sheffield Insulations Ltd Neopor EPS
Composting Unit Kingsley Clivus	I-Beams Boise Cascade





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