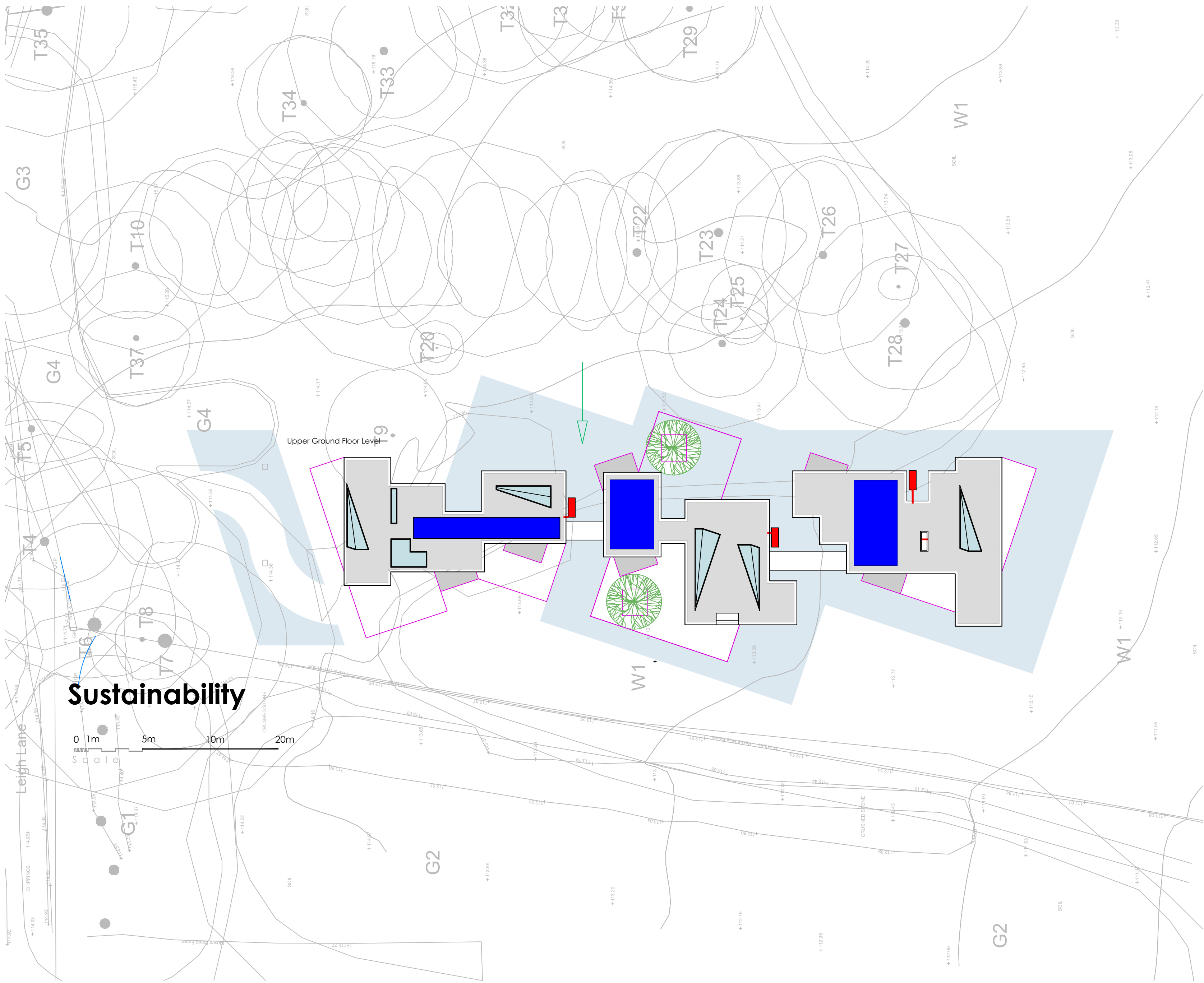
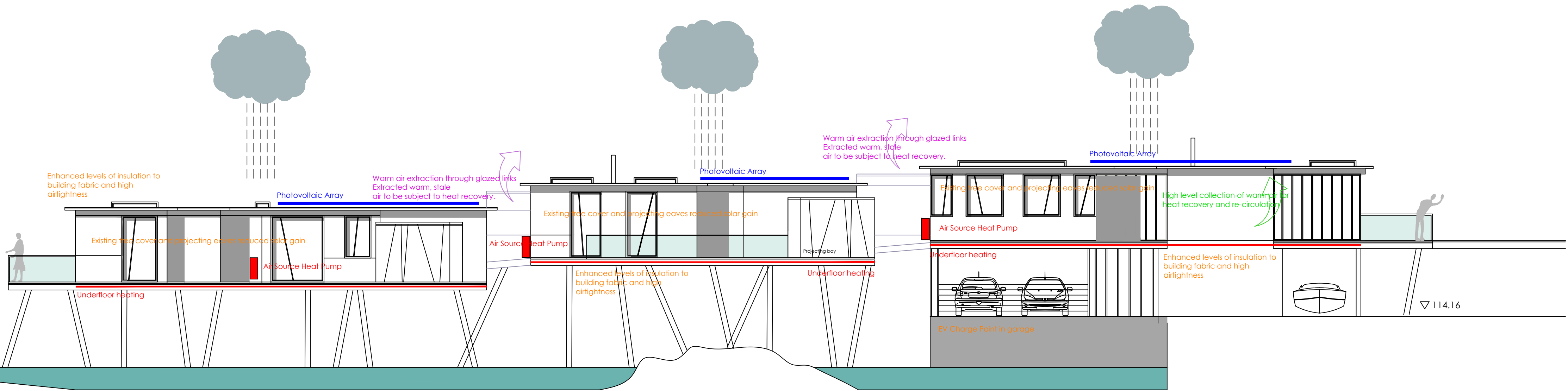




Sustainability

0 1m 5m 10m 20m



112.50

Environmental Sustainability Principles

0 1m 5m

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All dimensions are to be checked on site prior to construction, manufacture of any components and ordering of materials and equipment.

Any discrepancies are to be reported to the architect for clarification.

All materials and workmanship to be in accordance with the current British Standards and codes of practice.

Zero Carbon
The intention is for the building to be zero carbon. This will be achieved through a combination of construction standards supported by renewable technologies. The off-site construction will ensure that the building achieves appropriate levels of air-tightness and enhanced insulation levels throughout.
A photovoltaic array will be incorporated which will provide power to the three inter-linked air source heat pumps. Underfloor heating will be incorporated throughout. (It is recognised that the roof will in part be over-shadowed by the surrounding trees but the system will nonetheless be designed in detail such that the optimum power output will be achieved).
The route to zero carbon is complex and the development will be designed in detail and with the appropriate level of care applied to all facets of the design - such as:
Reduced water consumption.
Reduced air permeability
Enhanced u-values
Integrated heating system
Enhanced controls
LED lighting throughout
Minimise thermal bridging
Water treatment and re-use
Possible battery storage
Reduced waste
Recyclable construction and materials
Local procurement
EV charge point in garage

Rev: .
Rev: .
Rev: .

Leigh Lane Bury **Project:**

Mr and Mrs J Oestergaard **Client:**

Sustainability Principles **Drawing:**

21012 - 69 **Reference:**

March 2025 **Date:**

1/100&1/500@A1 **Scale:**

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