Sustainable Design Measures Statement
236-4.01:SDMS-01

for

Signal Rock Stables, St Martins, TR25 0QL

24th January 2024

Energy Sustainability:
Throughout its development, the proposal has incorporated many features that minimalize it's energy demand including:

- the seasonal nature of the properties use (April to October), during typically the hottest months of the year, reduces the amount of energy required to heat the property to liveable temperatures;
- the fully glazed front door on the South Eastern Elevation maximises the potential for solar heating to improve the natural temperature of the property.
- Efficient insulated makeup for the walls, roof and floor of the proposed construction (as per building regulation standards or better.)

The minimal energy loads required by the heating and seasonal use of the proposal will be met and or further mitigated by the new solar array that is proposed to be installed on Signal Rock's existing extension's roof. Excess energy can be also used by Signal Rock to reduce their demand from the existing 40 Amp Supply with Economy 7.

Water Sustainability:
Surface water is currently being collected by 2 x 220 Litre water butts for both sides of the roof of Signal Rock. An additional water butt is proposed to collect water from the roof of the converted Stables building. The water from these butts will be used in the garden of Signal Rock and for the courtyard garden of the converted Stable.

Water saving taps and appliances are proposed to be installed to reduce consumption and therefore mitigate additional burden on Signal Rock's existing drainage system.

Sustainability Through Design & Construction:
The reuse and recycling of existing materials on site reduces the embodied energy of the proposal by limiting the incorporation of new materials and there transport and away from site, to a bare minimum. Refer to Site Waste Management Plan for details.

Embodied energy use is further reduced by the proposed use of sustainable and locally sourced materials, such as wood fibre insulation (an insulation that is recycled and recyclable).

END