

ENVIRONMENTAL SUSTAINABILITY & ENERGY EFFICIENCY BENEFITS

Proposal: Erection of a single storey educational building

Location: Loreto High School, Nell Lane, Manchester, M21 7SW

Application number: 136346/FO/2023

The below environmental sustainability and energy benefits have been identified and included as part of the building design and specification which will result in reduced energy use and carbon emissions.

Electrical Installations:

- High efficiency LED lighting.
- Highly efficient intelligent lighting controls including daylight sensors and absence detection.
- Low energy extract fans delivering optimum airflow performance with the lowest possible energy requirement.

Mechanical Installations:

- Highly efficient distribution, zoned to provide flexibility and optimise system efficiency.
- High quality insulation to all exposed pipework.
- Highly efficient heat emitters and local controls.
- Hot water will be provided by an existing Air Source Heat Pump system from the adjacent building.

External Fabric:

- Insulation to floors, walls, and roofs to provide u-values exceeding current Building Regulations requirements.
- Double glazed unit to external windows and to provide u-values exceeding current Building Regulations requirements.