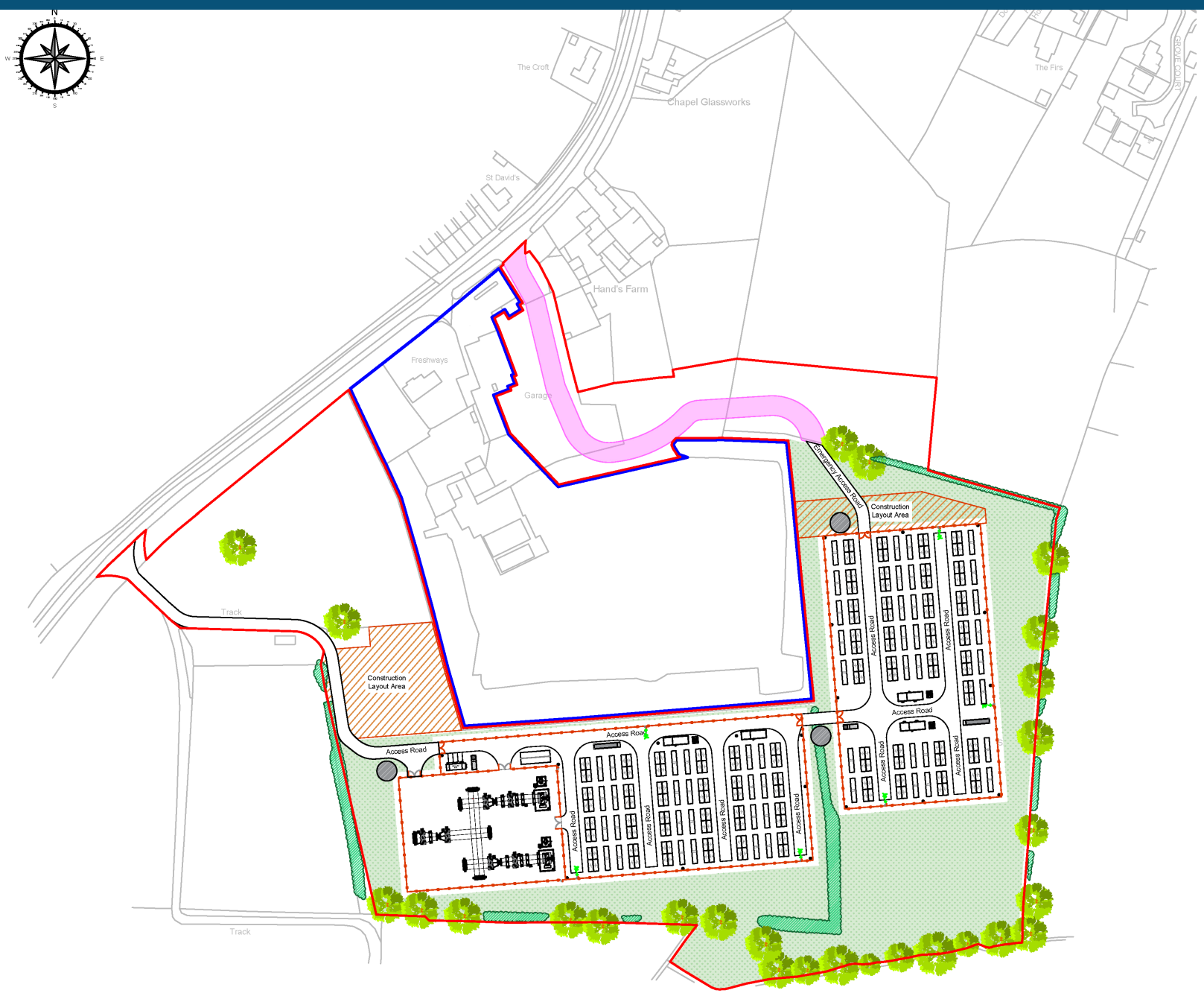


LEGEND:

- OWNER'S LAND
- PROPOSED SITE
- FENCE
- TEMPORARY CONSTRUCTION ACCESS
- INTERNAL ACCESS
- TEMPORARY CONSTRUCTION COMPOUND
- NEWLY PROPOSED NATIVE SHRUB/HEDGEROW/TREE PLANTING
- EXISTING VEGETATION

BESS SITE EQUIPMENT:

- BATTERY CONTAINER
- WELFARE CABIN
- AC TWIN SKID
- STANDBY GENERATOR
- 400kV PROTECTION & CONTROL ROOM
- 400kV SUBSTATION COMPOUND
- BESS CONTROL ROOM
- EMERGENCY ESCAPE ROUTE
- SPARE PARTS CONTAINER
- FIRE FIGHTING WATER TANK
- CCTV & LIGHT POLE
- AUXILIARY TRANSFORMER

**Preliminary Indicative Proposed Site Plan**

# Project Description

Masdar Arlington Energy are developing a Battery Energy Storage facility on land east of Leek Road, Werrington, which will be connected into the National Grid Electricity Transmission network. The scheme will adopt a modular design, incorporating energy storage equipment/plant enclosures and associated infrastructure.

In its simplest terms, the principle aim of the facility will be to store surplus electricity from the Grid at times of peak production. At times of peak demand, the stored electricity can then be fed back to the Grid when it is needed the most. The proposed facility also plays a key role in controlling the "quality" of electricity transmitted, mitigating the potential for system trips by helping to control the frequency of the network.

**A modular energy storage facility will be the optimised design for the scheme. This type of prefabricated arrangement:**

- Represents the most sustainable and efficient use of materials and equipment.
- Most typical across the industry.
- Optimal for overcoming visual and acoustic impacts.
- Makes the most efficient use of space.
- Least imposing solution – most equipment is less than 3m in height.
- Optimised construction timeline.
- Generates the least amount of vehicle movements during the construction phase.
- Reduced operational servicing and maintenance requirements.

MASDAR ARLINGTON