

SUSTAINABILITY

UNLIMITED LLP - ENERGY & INFRASTRUCTURE ADVISORS

SHERIFF FAULDS BATTERY ENERGY STORAGE SYSTEM (BESS)

WELCOME



WHO IS THE APPLICANT?

- **Wholly Scottish Owned** Company dedicated to Energy Storage Development
- Based in **Glasgow**
- **Over 12 years experience** in the sector
- **Delivering over 1GW** of Energy Storage for Scotland

WHY IS BATTERY STORAGE IMPORTANT

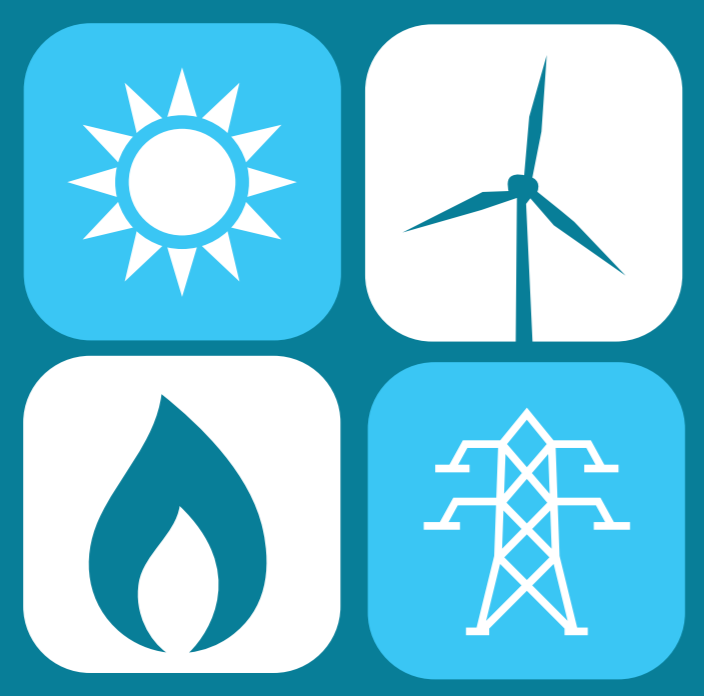
- Scotland is aiming to **achieve net-zero by 2045**.
- **Intermittent renewable energy** generation means we still have to rely on fossil fuel generation.
- **Battery Projects** let us store excess renewables energy until it is needed – plugging the gap.
- **By 2050**, according to National Grid ESO, we may require up to 40 GW of energy storage.
- New energy storage capacity is encouraged by the **Scottish Energy Strategy 2018** in order to hasten the adoption of storage innovation and deployment across Scotland.



**Net Zero
Scotland**
Scottish
Government

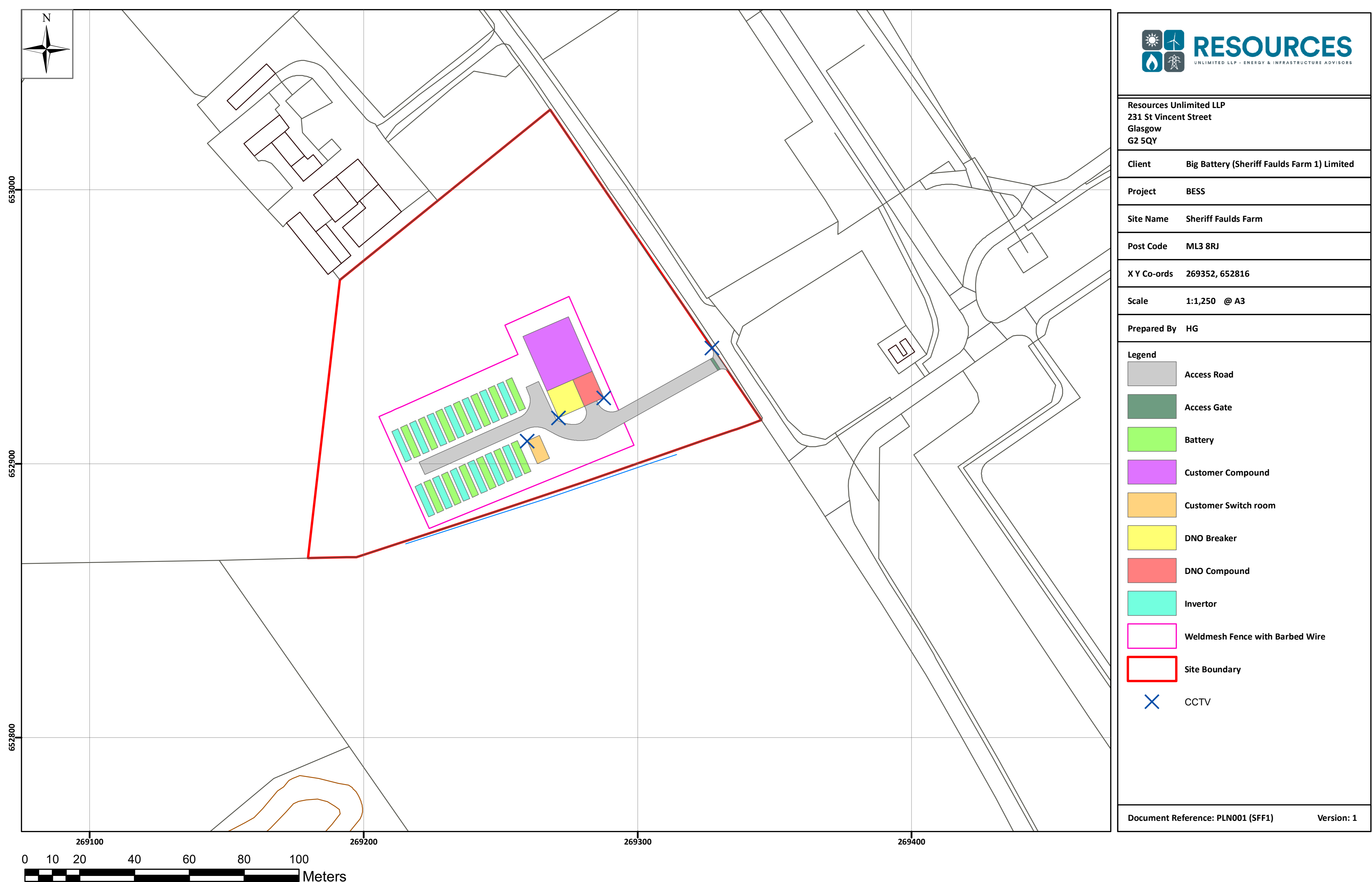
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SHERIFF FAULDS BATTERY ENERGY STORAGE SYSTEM (BESS)

SITE LAYOUT



SITE PLAN OF SHERIFF FAULDS FARM

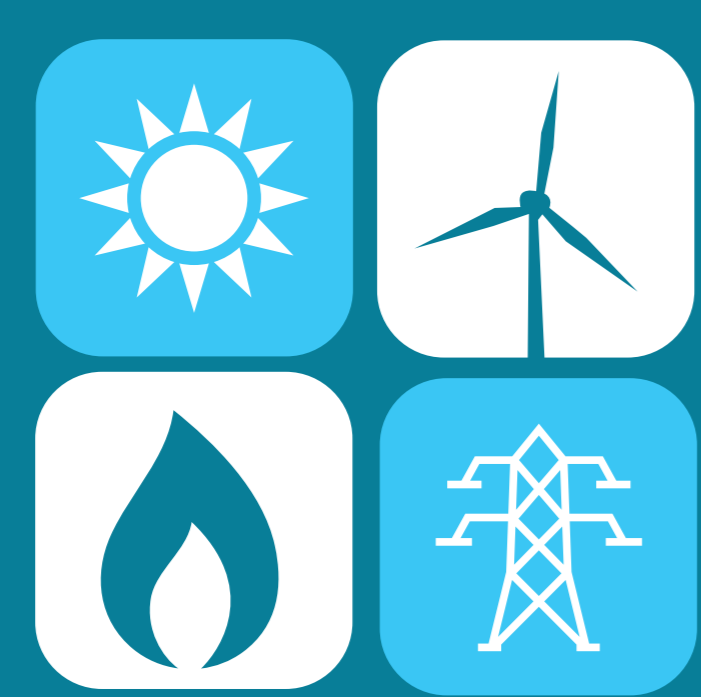
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- **Containerised** battery storage facility (13 x containers) with up to 49.9MW of energy storage.
- Circa 6-meter-long containers at a height of approx. 2.5 meters.
- An access track, electricity meter building, fences, and containers housing batteries and related equipment would make up the development.
- Stores extra grid generation in reserve - returns electricity to the grid as necessary. Allows more green energy to be added to grid mix.
- This balances the grid's supply and demand.
- The existing hedgerows and tress will be retained and a belt of new planting of native trees is proposed along the roadside to screen the development.



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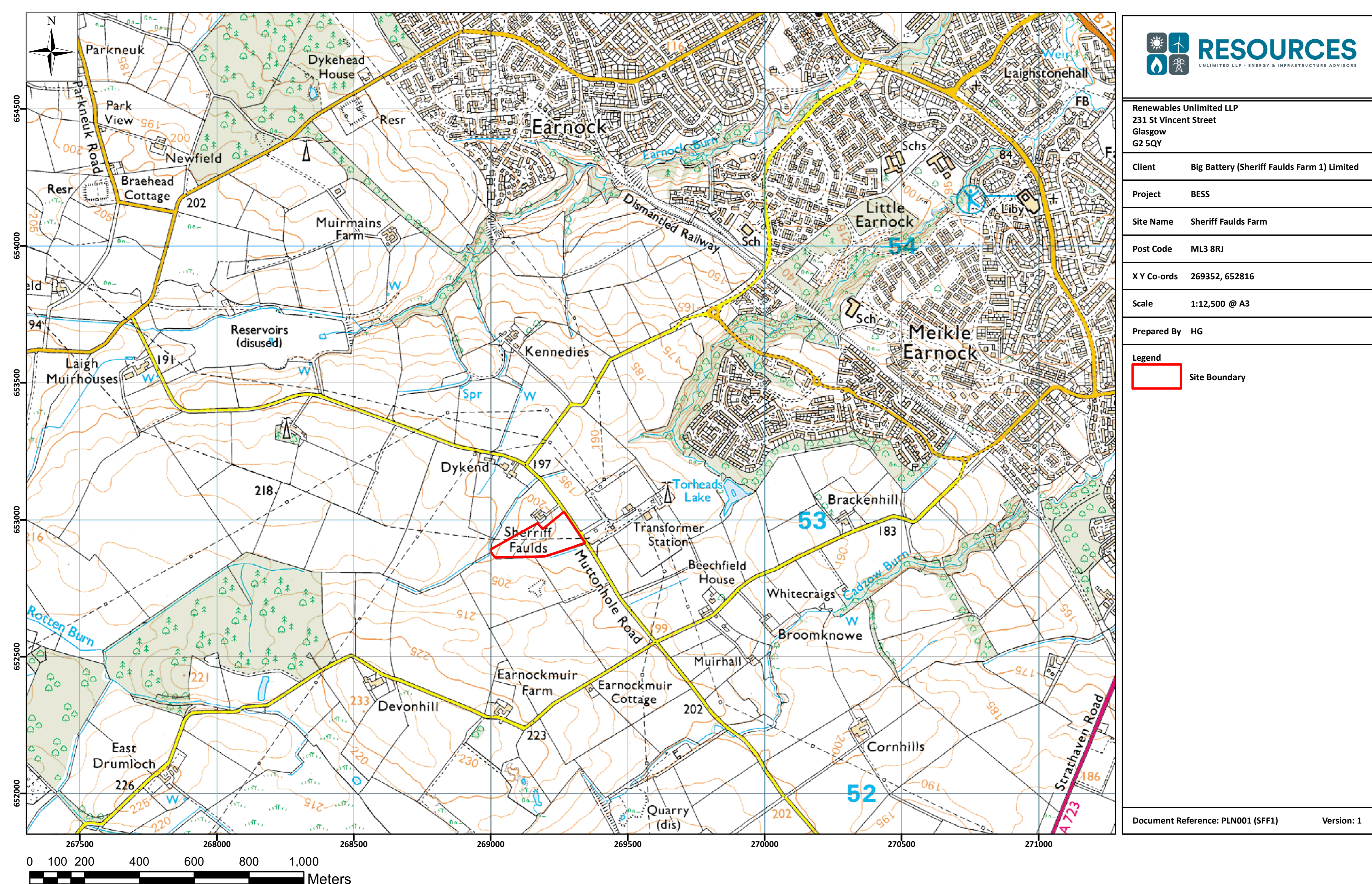


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SHERIFF FAULDS BATTERY ENERGY STORAGE SYSTEM (BESS)

LOCATION



LOCATION PLAN OF SHERIFF FAULDS FARM

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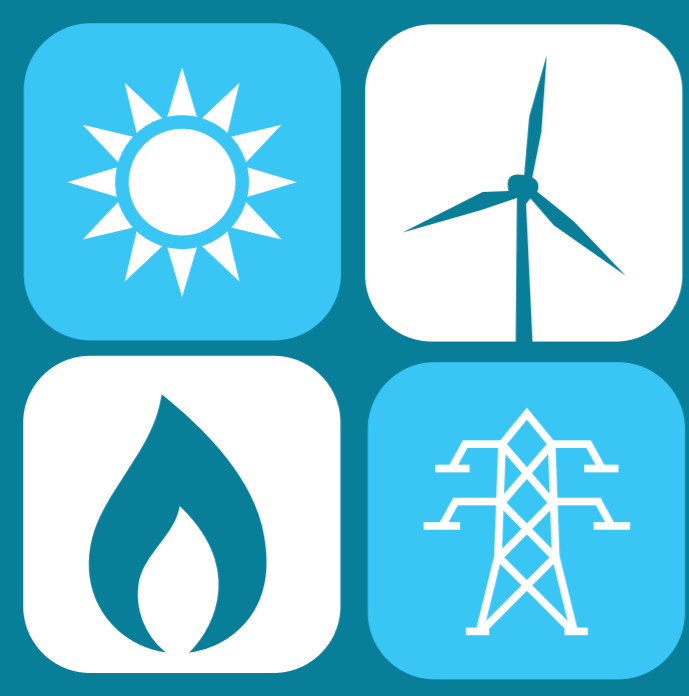
- The location is next to the main **Strathaven Grid Supply Point**.
- There is available **grid capacity** at this location.
- There are **very few suitable locations** in Scotland such as this.
- This location **minimises the amount of connection infrastructure required** which is better for the environment and means lower embodied carbon emissions.
- The application site is located on land to the south west of Muttonhole Road, approximately **half a kilometre to the south west of Hamilton**.
- Sheriff Faulds farm adjoins the site to the north. The proposed site is **approximately 1 hectare (the size of a football pitch)** in size and currently consists of low quality agricultural land.



Lorem ipsum

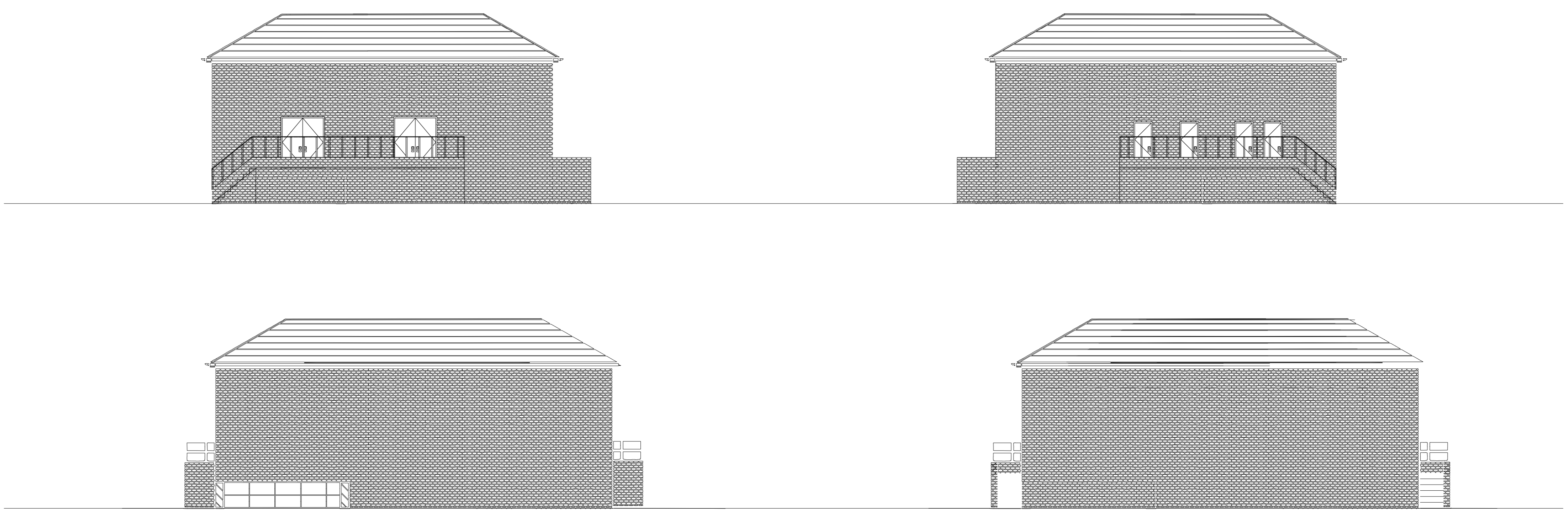
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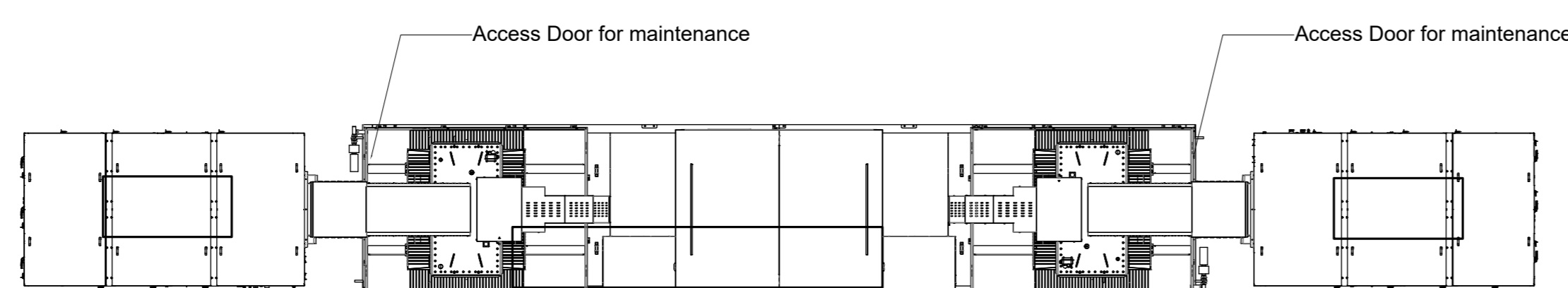


SHERIFF FAULDS BATTERY ENERGY STORAGE SYSTEM (BESS)

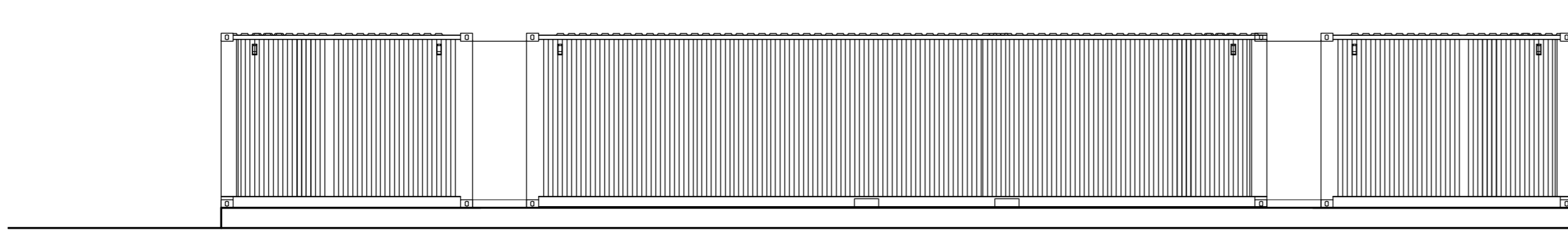
SITE ELEVATIONS



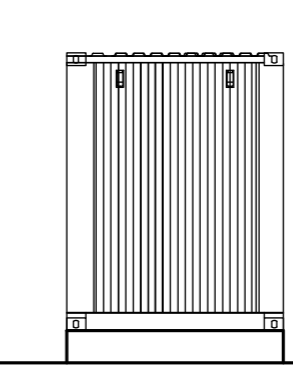
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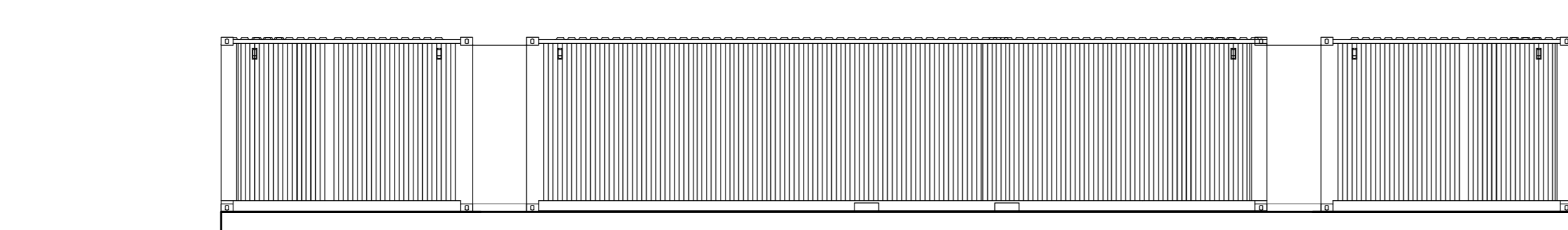
Switch Gear Plan 1:50



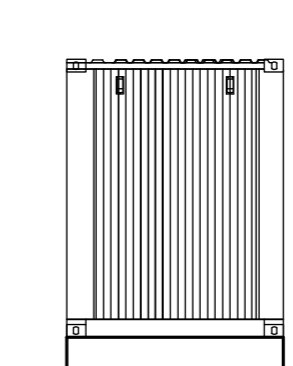
Switch Gear Side Elevation 1:50



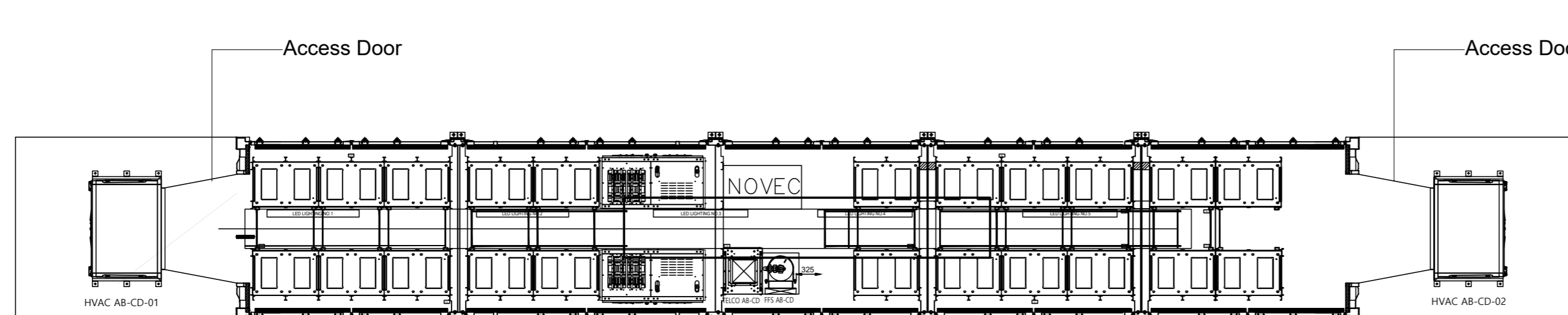
Switch Front Elevation 1:50



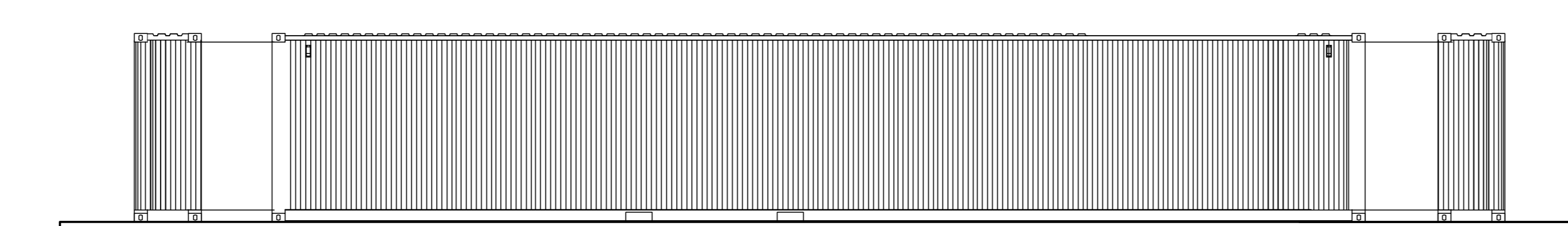
Switch Gear Side Elevation 1:50



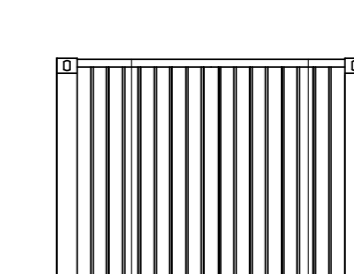
Switch Rear Elevation 1:50



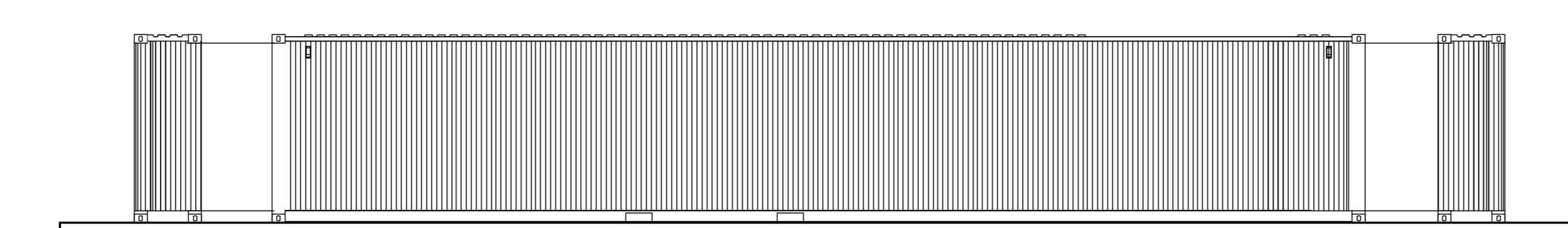
Battery Container Plan 1:50



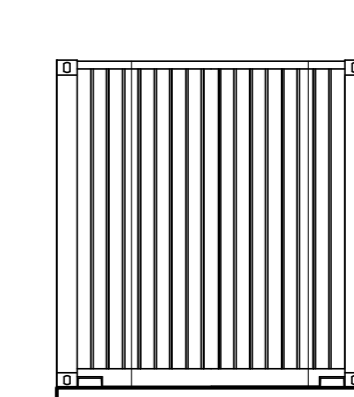
Battery Container Side Elevation 1:50



Battery Front



Battery Container Side Elevation 1:50



Battery Rear Side Elevation 1:50



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