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AIR QUALITY IMPACT ASSESSMENT  
STANDBY ELECTRICITY GENERATION PLANT  
REACH ROAD, BURWELL

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REACH ROAD, BURWELL**

**ISLAND GREEN POWER**

**JUNE 2017**

## HARRISON GROUP ENVIRONMENTAL LIMITED

**Document:** Air Quality Impact Assessment



**Project:** Standby Electricity Generation Plant Reach Road, Burwell

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## **1 INTRODUCTION**

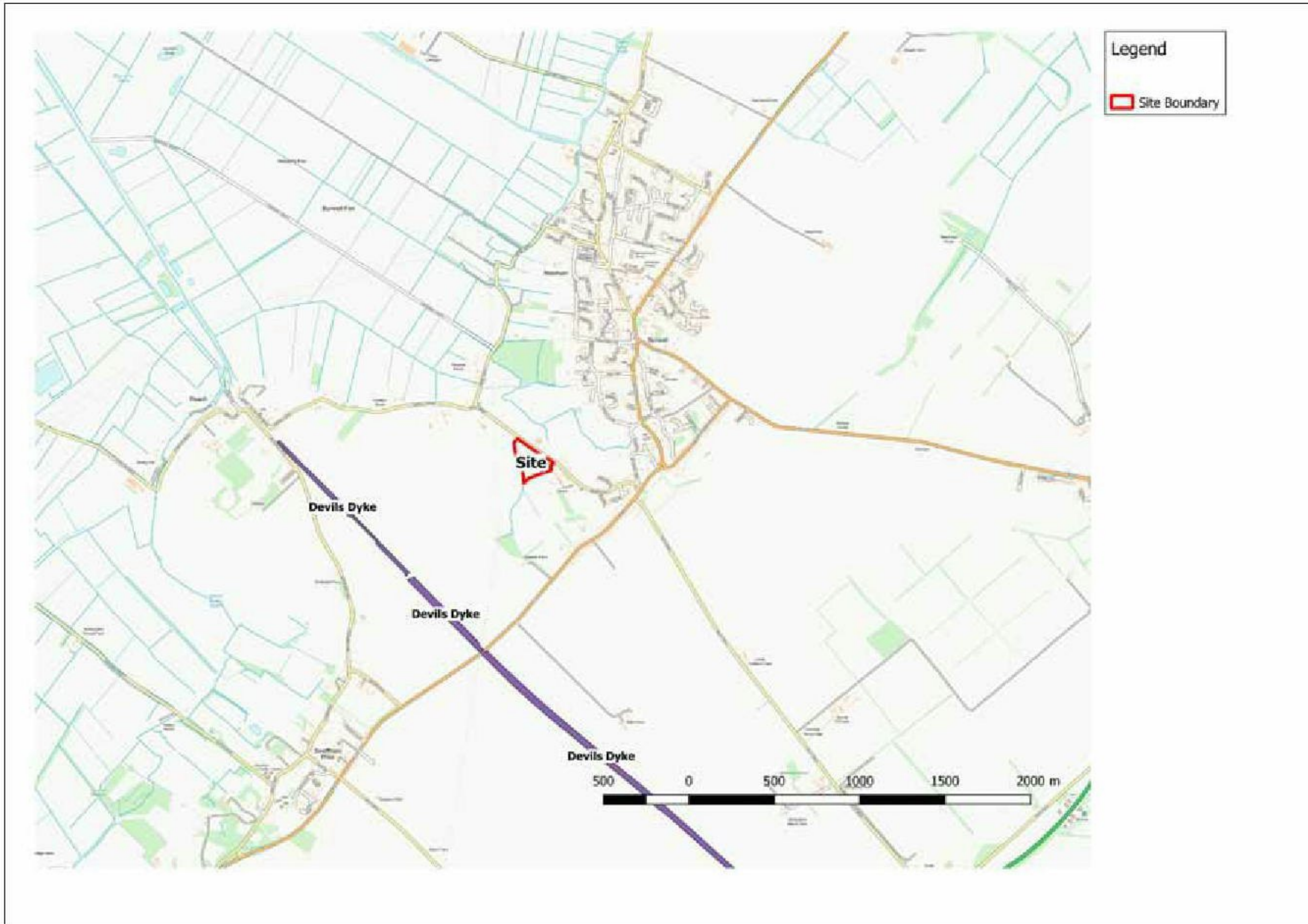
This report presents the results of an air quality impact assessment carried out by Harrison Group Environmental Limited for a proposed electricity generating plant at Reach Road, Burwell, Cambridgeshire (Figure 1-1)

The work detailed in this report was undertaken on behalf of Island Green Power, in accordance with Harrison Environmental Consulting proposal (Ref EN20131), and instruction issued by Ms Jane Crichton of Lanpro Services.

### **1.1 Project Overview**

The proposed generating plant comprise a series of gas-fuelled engine generators with a combined thermal output of approximately 40 MWth. There are 20 x 2 MWe natural gas generator engines proposed at the site, each to be contained within a soundproofed engine cell within a portal framed building, and organised into two blocks of 10 engines.

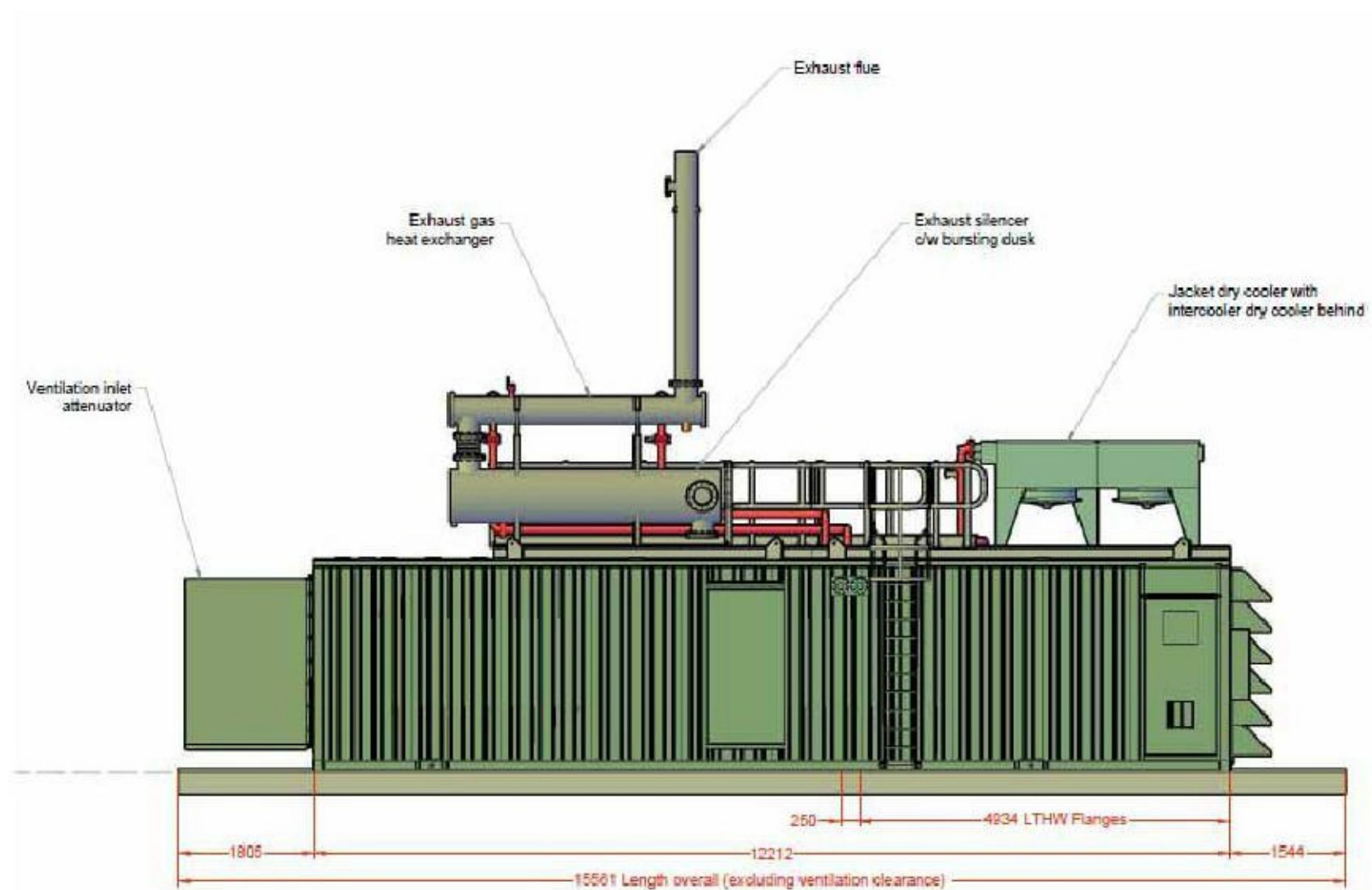
The standby gas fuelled engine generators are to participate in the National Grid's Short-term Operating Reserve (STOR) programme to provide balance to the National Grid during unexpected periods of high demand for electricity or where there are constraints on electricity available in England and Wales.



**Figure 1-1 Site Location Plan**

## 1.2 Proposed gas engine

The proposed generating plant will comprise a series of gas-fuelled engine generators with a combined thermal output of approximately 40 MWth. There are 20x2MWe natural gas generator engines proposed at the site, in two blocks of 10 (Figure 1-3 and 1-4), each to be contained within a soundproofed engine cell within a portal framed building. A schematic is shown on Figure 1-2.



**Figure 1-2** Schematic of Housing and Stack Detail for each Engine



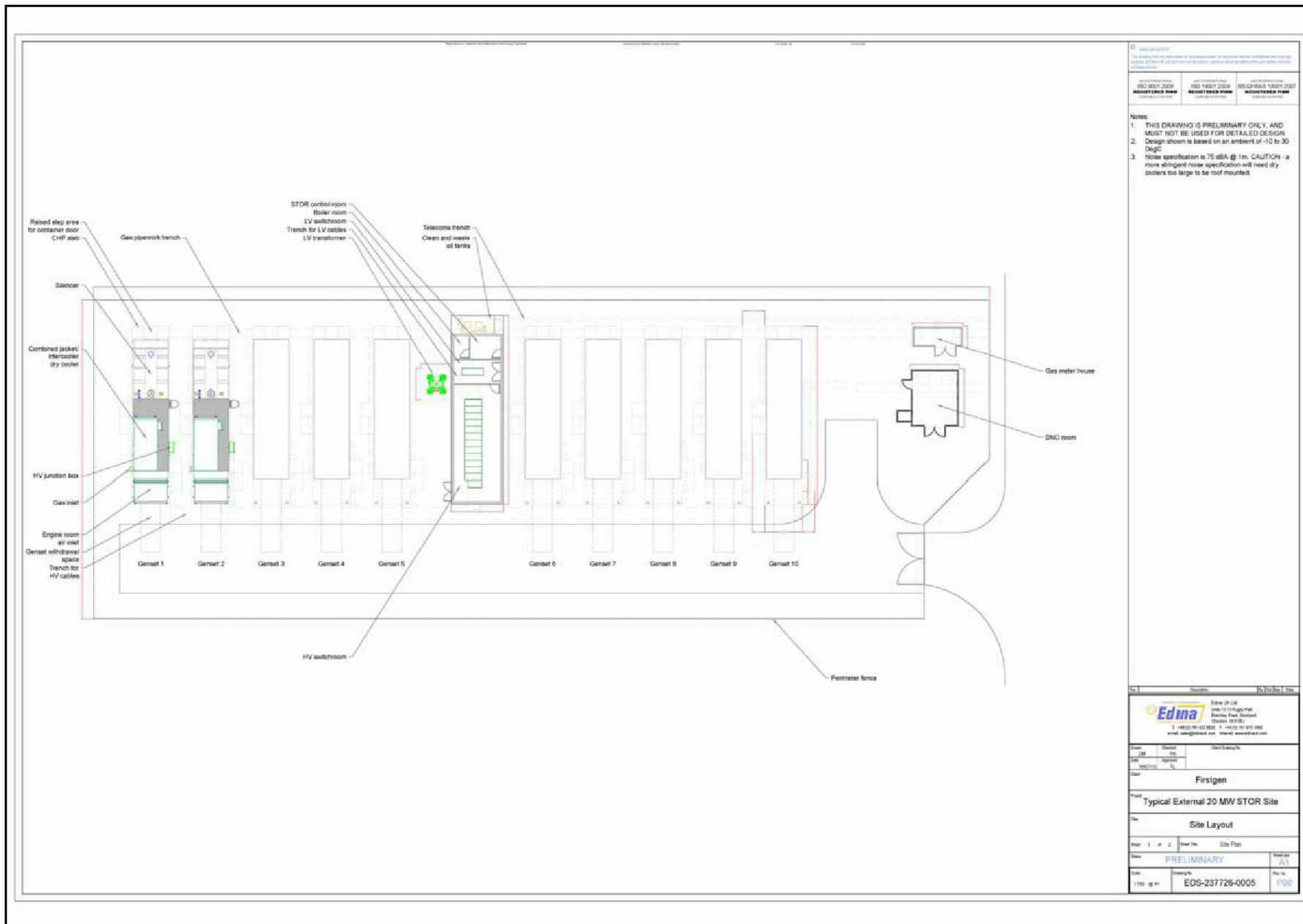


Figure 1-3 Typical External 20 MW STOR Site