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Notes

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PRELIMINARY
SUBJECT TO DETAILED DESIGN

This drawing illustrates a sketch proposal only and as such is subject to detailed site investigation including ground conditions/contaminants, drainage, design and planning/density negotiations. The layout maybe based upon an enlargement of an OS sheet or other small scale plans and its accuracy will need to be verified by Survey. Full risk analysis under the CDM Regulations has not been undertaken.

KEY

- Surface Water Manhole/ Inspection Chamber/ Hydrobrake
- Interceptor Channel
- Surface Water Headwall
- Internal Compound Surface Water Drains
- Surface Water Outfall Routes
- Vortex Grit Separator
- Attenuation Blanket

Total Site Area = 33.2ha
Impermeable Area = 6.4Ha
Greenfield Runoff Rate 1 in 1 = 22 l/s
Restriction Rate = 22 l/s

Total Site Attenuation Requirements (6.4Ha)
Attenuation Basin Storage requirement for 1:100 year + 40% cc event = 5130 m³
Storage Requirement + Fire Water Volume (232m³) = 5362 m³
Actual Attenuation Basin Storage Provided = 5353 m³

Battery Compound Area Attenuation Requirements (4.2Ha)
Attenuation Blanket Storage requirement for 1:100 year + 40% cc event = 3494 m³
Storage Requirement + Fire Water Volume (232m³) = 3726 m³
Actual Attenuation Blanket Storage Provided = 3798 m³

In normal operation conditions, runoff will be collected within the lined gravel bases (attenuation blanket) and conveyed via filter drains to the attenuation basin

Penstocks and inspection chambers will be located at the outfall of the attenuation blanket, to allow for containment in the event of a battery fire. This will prevent the infiltration of contaminated water, which will be stored within the attenuation blanket until it is tested for contamination and either removed by a specialist management company for treatment or discharged via the surface water drainage system

Rev	Description	By	Ckd	Date
D	Updates to Drainage Approach	JG	JM	07.10.24
C	Updates to Drainage Approach	JG	JM	27.03.24
B	Updates to Layout	JG	JM	27.10.23
A	Conceptual Drainage Strategy	JG	JM	04.2023

A TETRA TECH COMPANY
4th Floor, 1 Newhall Street, Birmingham,
West Midlands B3 3NH
T: +44 121 622 8520 E: rpshydrologyservices@rpsgroup.com

Client: Statera Energy

Project: East Claydon Battery

Title: Conceptual Drainage Strategy

Status	Scale	Date Created
Preliminary	@A0	07.10.2024
Task Team Manager: JM	Information Author: JG	Task Information Manager: JM

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