



OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Chapter 4 - Figures 4.1 – 4.5

January 2024

Document Ref: EN010122/APP/6.1/Fig 4.1 – 4.5

Revision: -

Planning Act 2008

Infrastructure Planning (Application: Prescribed Forms and Procedure) Regulations 2009 - 5(2)(a)

**Oaklands Farm Solar
Park - Environmental
Statement Volume 2**
Chapter 4: Project
Description Figures
4.1 to 4.5

Final report
Prepared by LUC
January 2024

Figure 4.1a and b: Illustrative Concept Design

Figure 4.2: Work No 1 - Solar array area reference numbers

Figure 4.3a: Indicative Battery Energy Storage System Arrangement

Figure 4.3b: Indicative Battery Energy Storage System Section A-A

Figure 4.3c: Indicative Battery Energy Storage System Section B-B

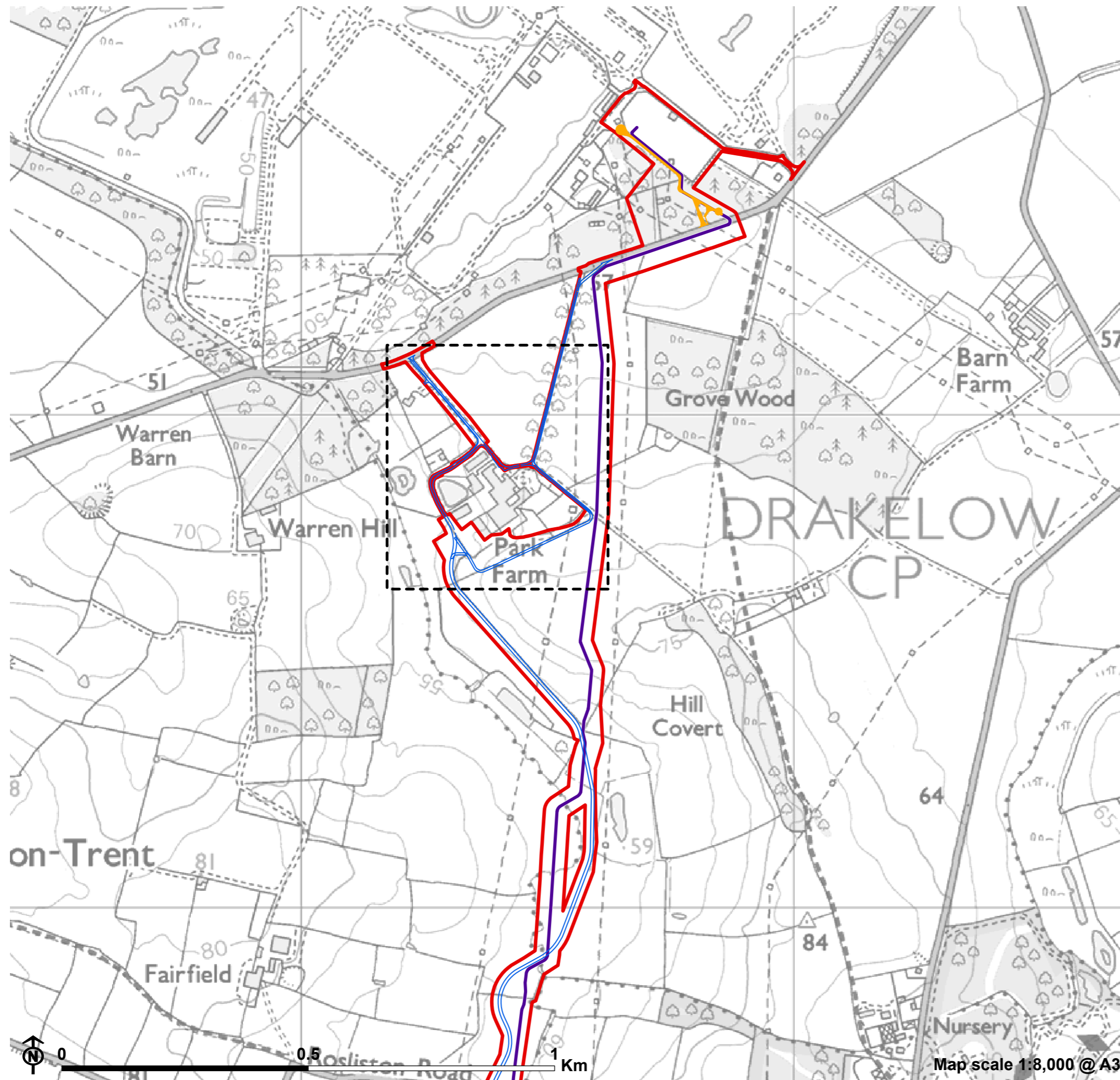
Figure 4.3d: Indicative Substation Arrangement

Figure 4.4: Site Access Points

Figure 4.5: Illustrative Drakelow Access Design



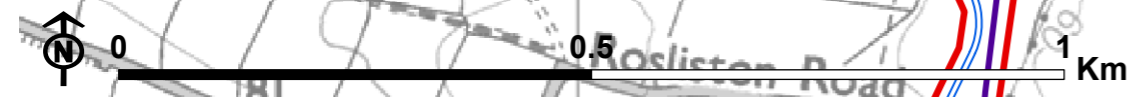
Figure 4.1a: Illustrative concept design



- Order Limits / Site Boundary
- Illustrative permanent access track
- Illustrative temporary construction access track
- Illustrative underground grid connection cable



Note:
This figure shows the illustrative infrastructure design, for detailed proposed landscaping design see Appendix 5.6



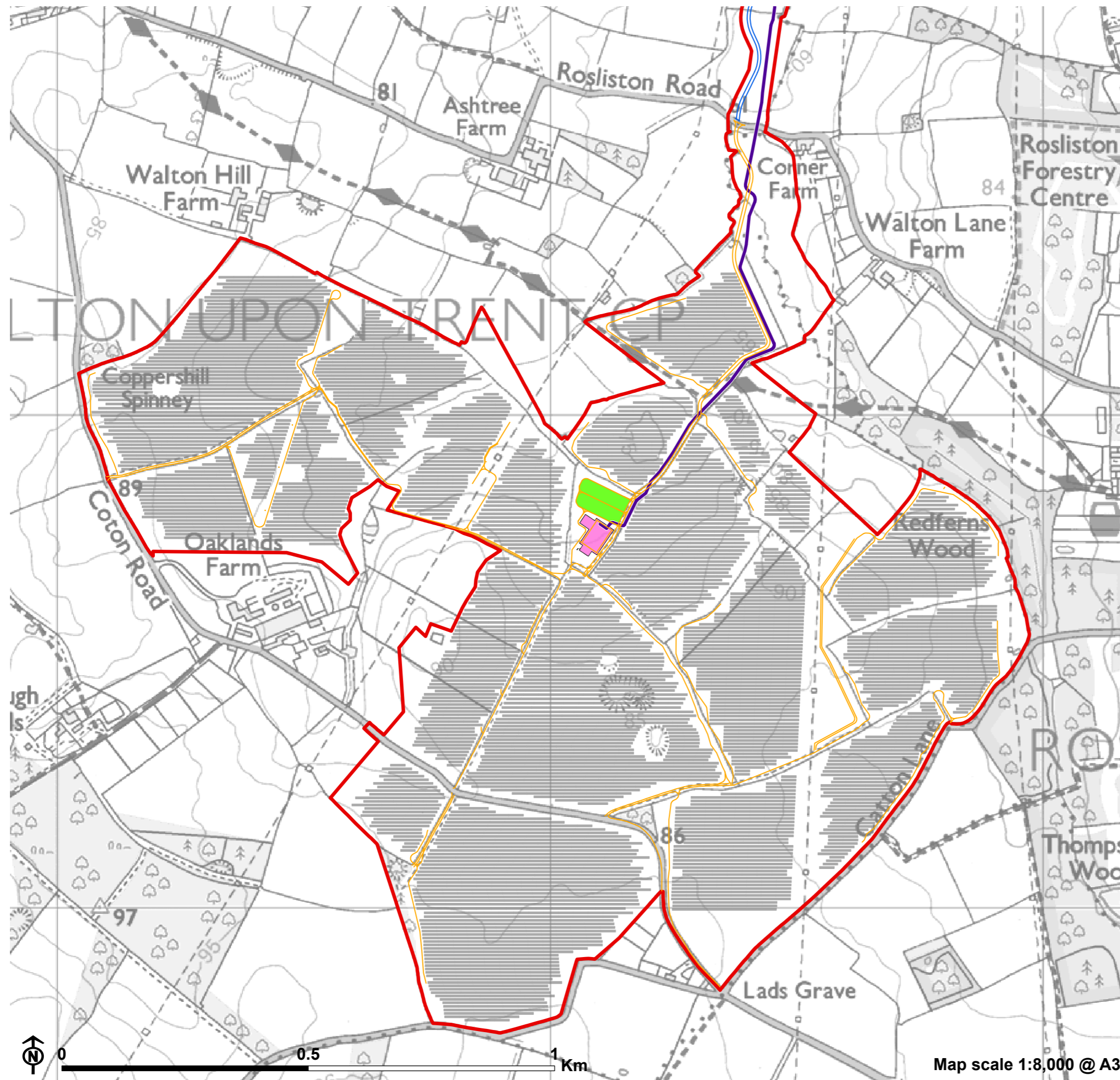
Map scale 1:8,000 @ A3

PINS reference: EN010122





Figure 4.1b: Illustrative concept design



- Order Limits / Site Boundary
- Battery Energy Storage System
- PV panel
- Substation area
- Illustrative permanent access track
- Illustrative temporary construction access track
- Illustrative underground grid connection cable

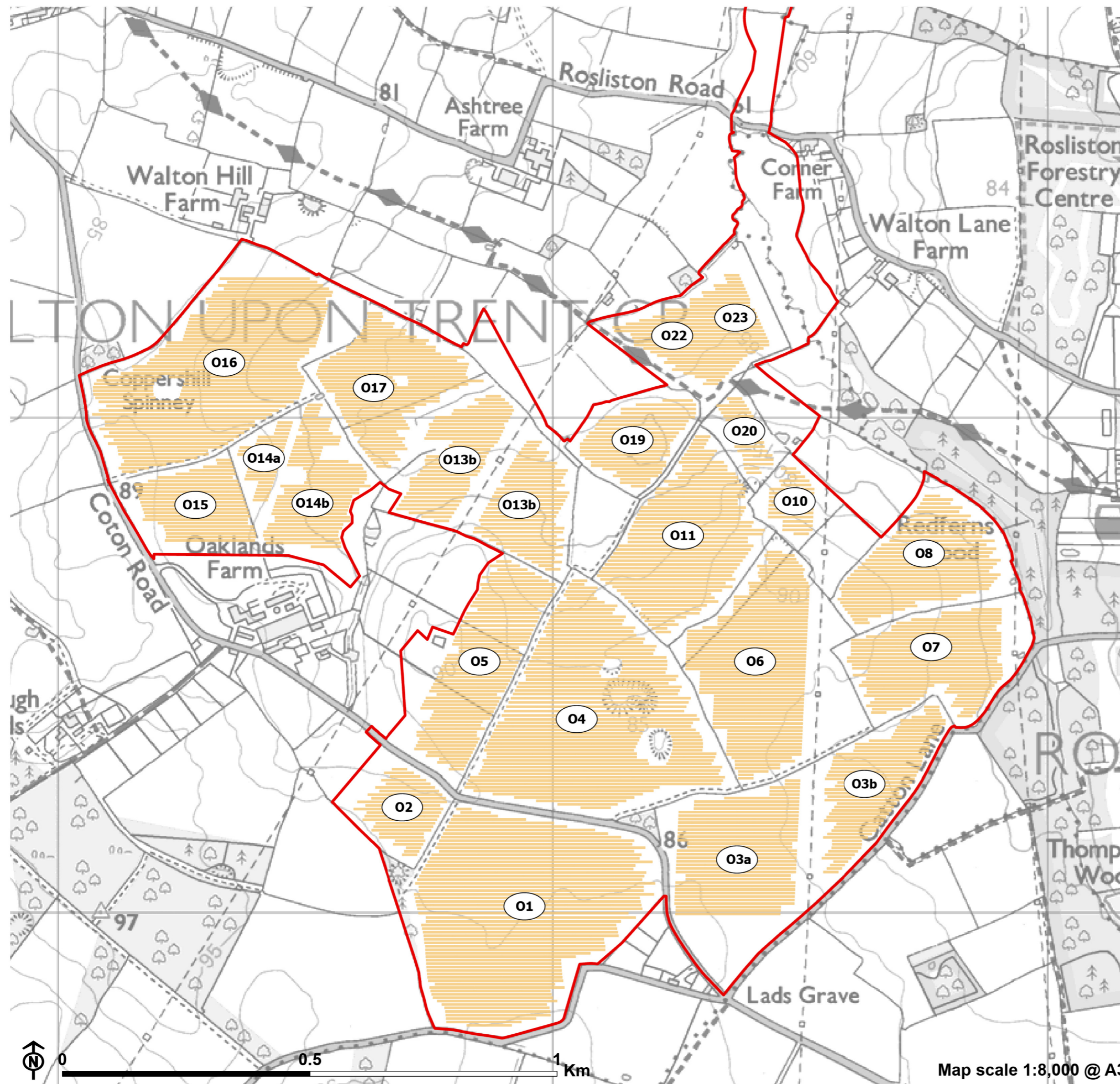
Note:
This figure shows the illustrative infrastructure design, for detailed proposed landscaping design see Appendix 5.6

PINS reference: EN010122





Figure 4.2: Work Area No 1 - Solar array area reference numbers



- Order Limits / Site Boundary
- Reference number
- PV panel

PINS reference: EN010122





Figure 4.3a: Indicative Battery Energy Storage System Arrangement



- O&M access track (3.5m width)
- Impermeable hard standing
- BESS transformer and PCS
- BESS battery containers

BESS Transformer Station

Grass/meadow plantation

Fence - BESS compound

BESS Battery Containers

BESS impermeable hard standing area
Area: 8000 m²
Granular fill void ratio: 30%
Depth: 0.4 m
Volume: 960 m³

O&M access track
Permeable hard standing
(3.5 m width)



30kV Switch Station - BESS

Concrete hard standing

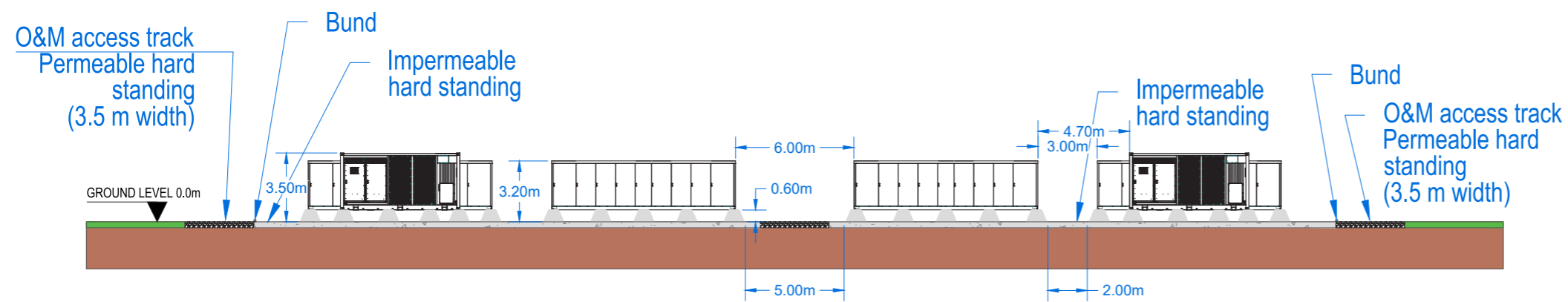




Figure 4.3b: Indicative Battery Energy Storage System Section A-A

 BESS battery containers
 BESS transformer and PCS

BESS - BATTERY STORAGE COMPOUND SECTION A-A'






Note: See also drawing "Indicative arrangement battery storage - Compound" or "Figure 2 - BESS compound"

PINS reference: EN010122

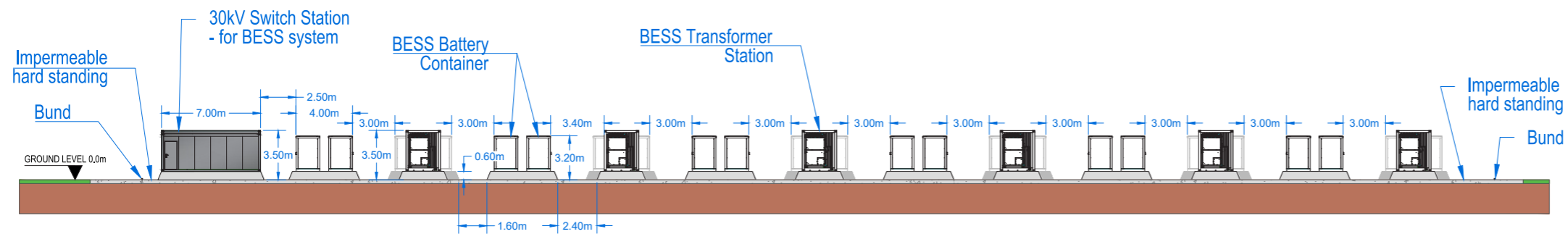




Figure 4.3c: Indicative Battery Energy Storage System Section B-B

-  O&M access track (3.5m width)
-  BESS transformer and PCS
-  BESS battery containers

BESS - BATTERY STORAGE COMPOUND
SECTION B-B'



Note: See also drawing "Indicative arrangement battery storage - Compound" or "Figure 2 - BESS compound"

PINS reference: EN010122





Figure 4.3d: Indicative Substation Arrangement

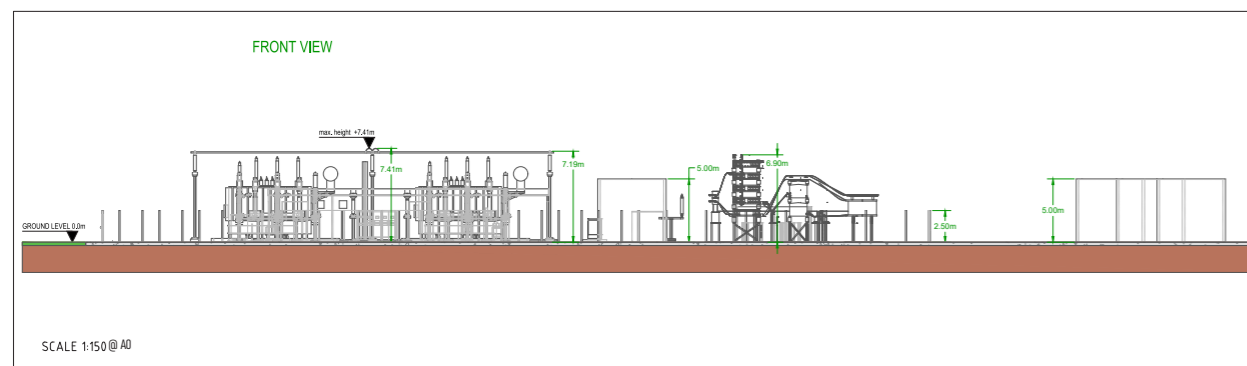
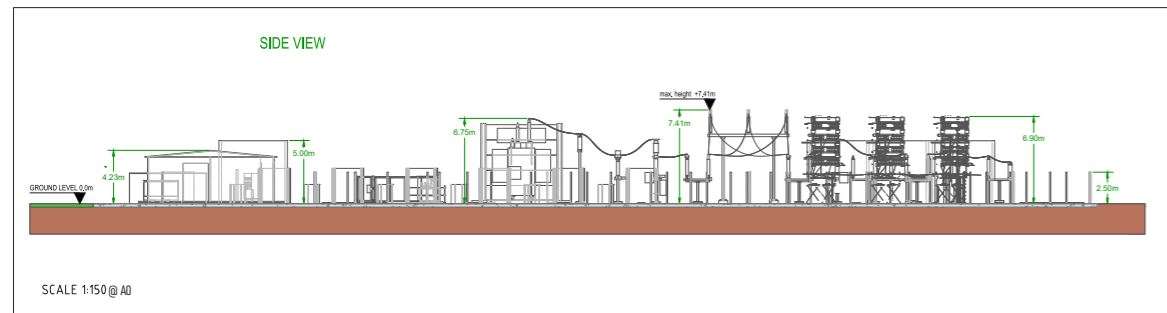
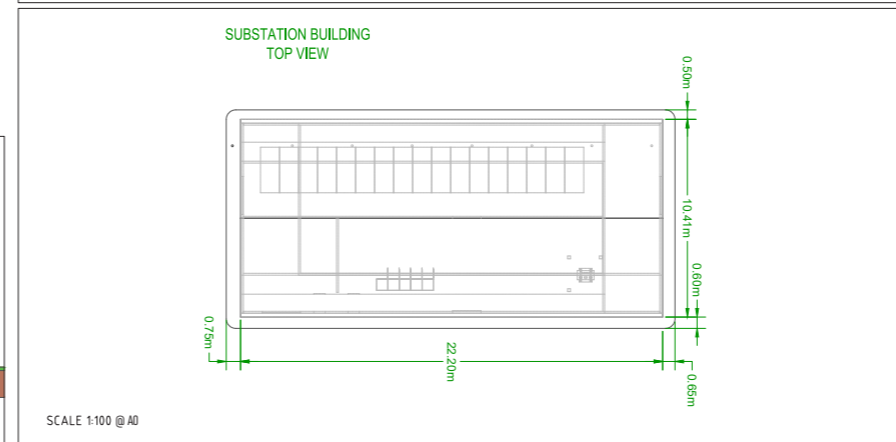
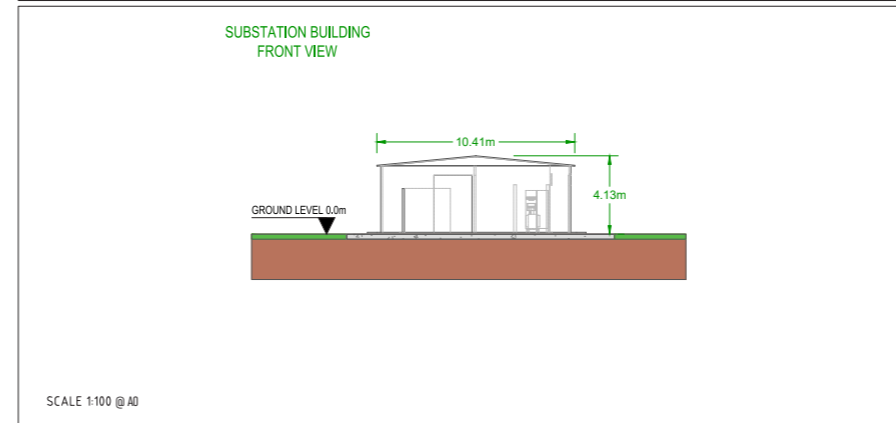
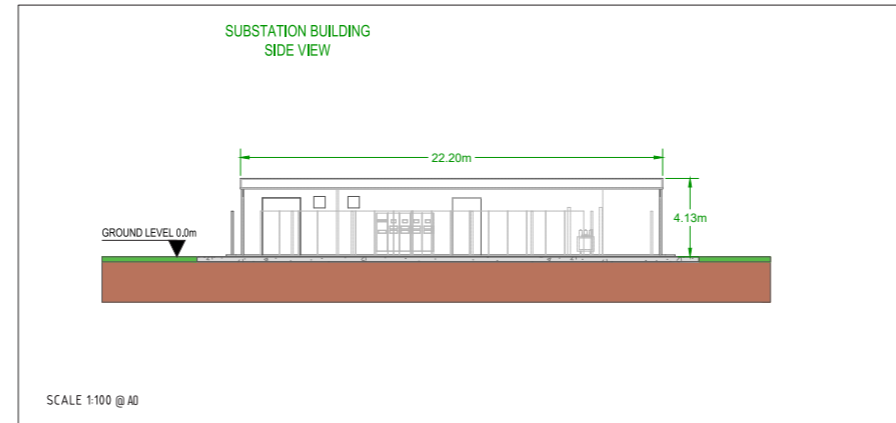
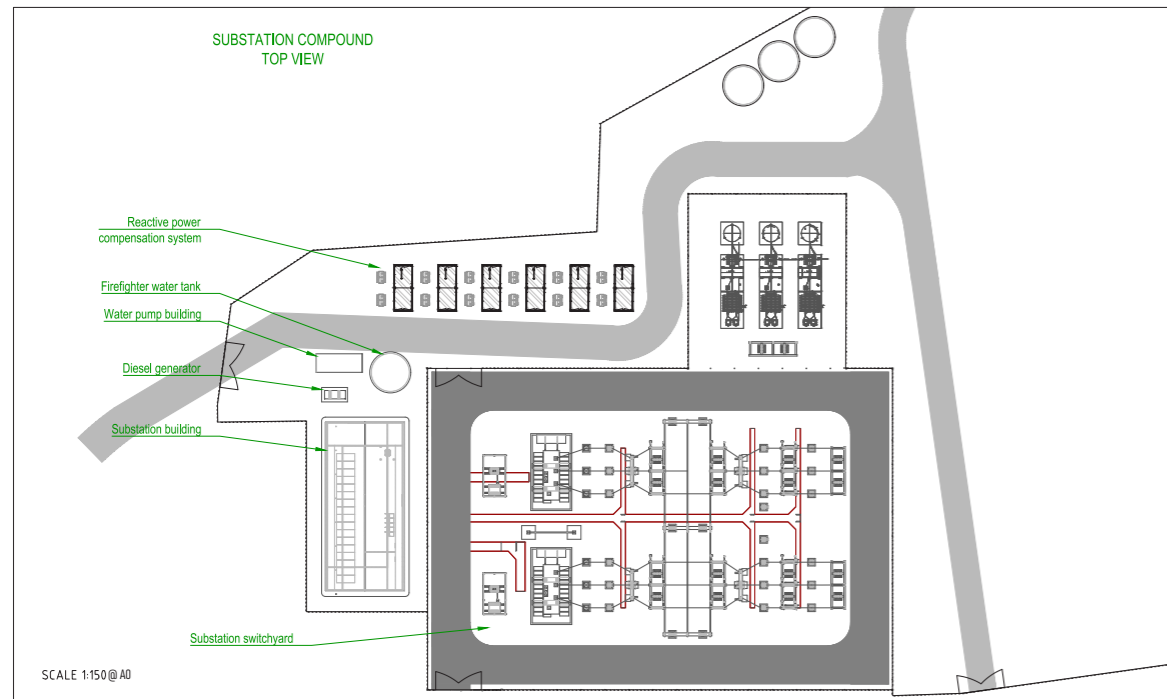
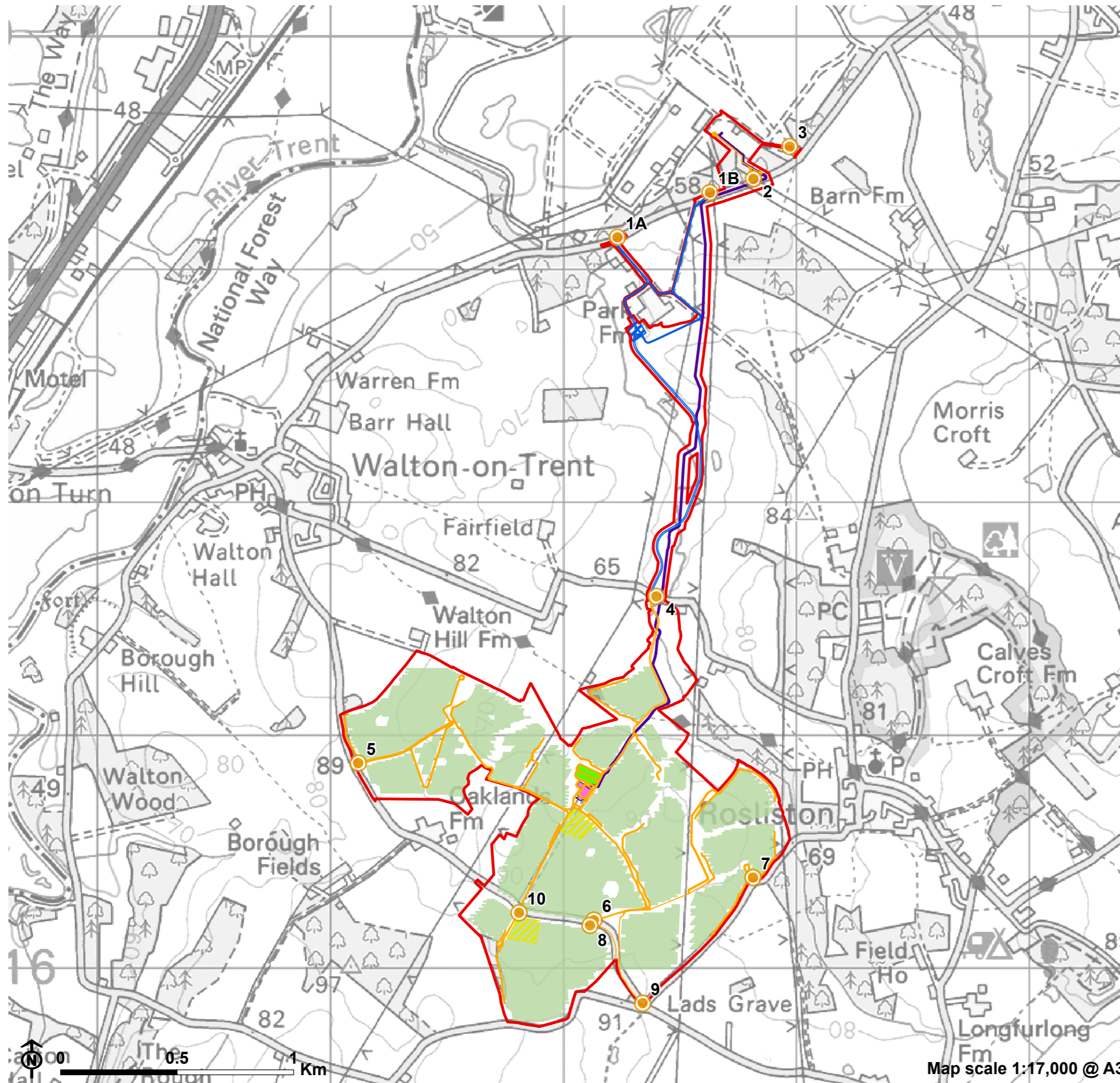




Figure 4.4: Site Access Points



- Order Limits / Site Boundary
- Illustrative permanent access track
- Illustrative temporary access track
- Illustrative underground grid connection cable
- Battery storage area
- Substation area
- PV panel
- Delivery/construction compound
- Onsite construction compound
- Access point

Point 1A, 1B: Main construction and decommissioning access. All HGVs and large vehicles/machinery, managed by temporary traffic lights or banksmen. Point 1A: exit and right turn only. Point 1B: entry only.

2: Access for the construction, maintenance and decommissioning of the underground electrical cable connection into the Drakelow substation. No right turn to exit.

3: Existing Drakelow substation operational access. To be used for the intermittent maintenance of the cable connection into the substation as necessary during the lifetime of the project.

4: Main construction and decommissioning route across Rosliston Road. All HGVs and large vehicles/machinery. No entry on to or exit off Rosliston Road. Crossing managed by banksmen/temporary traffic lights. Access south off Rosliston Road retained during operation solely for access for emergency vehicles

Point 5, 6, 7, 8 & 9: Small construction vehicles and operational/maintenance access. Small vehicles and machinery only and entrance only – exit to be at Point 10.

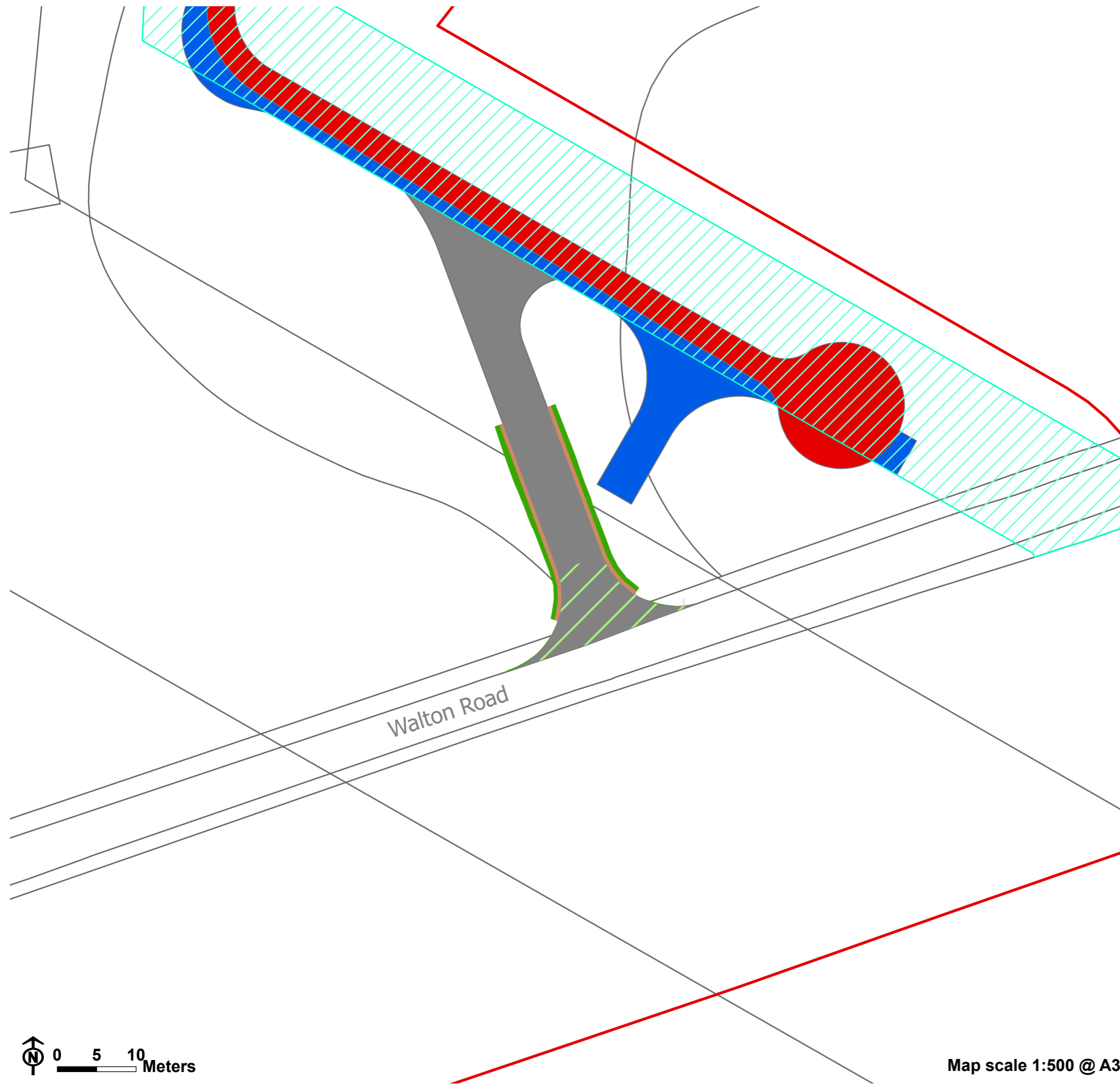
10: Main entry and exit for operational and maintenance vehicles. Access for abnormal loads (2 deliveries via Coton-in-the-Elms). Entry and exit, managed by visibility splays.










PINS reference: EN010122





Figure 4.5: Illustrative Drakelow Access Design



-  Order Limits / Site Boundary
-  Proposed type 1 track
-  Proposed tarmac surface
-  Proposed Ditch
-  Proposed earthworks
-  Permanent 3.5m track
-  Temporary 5m track
-  Access track
-  Cable construction corridor

