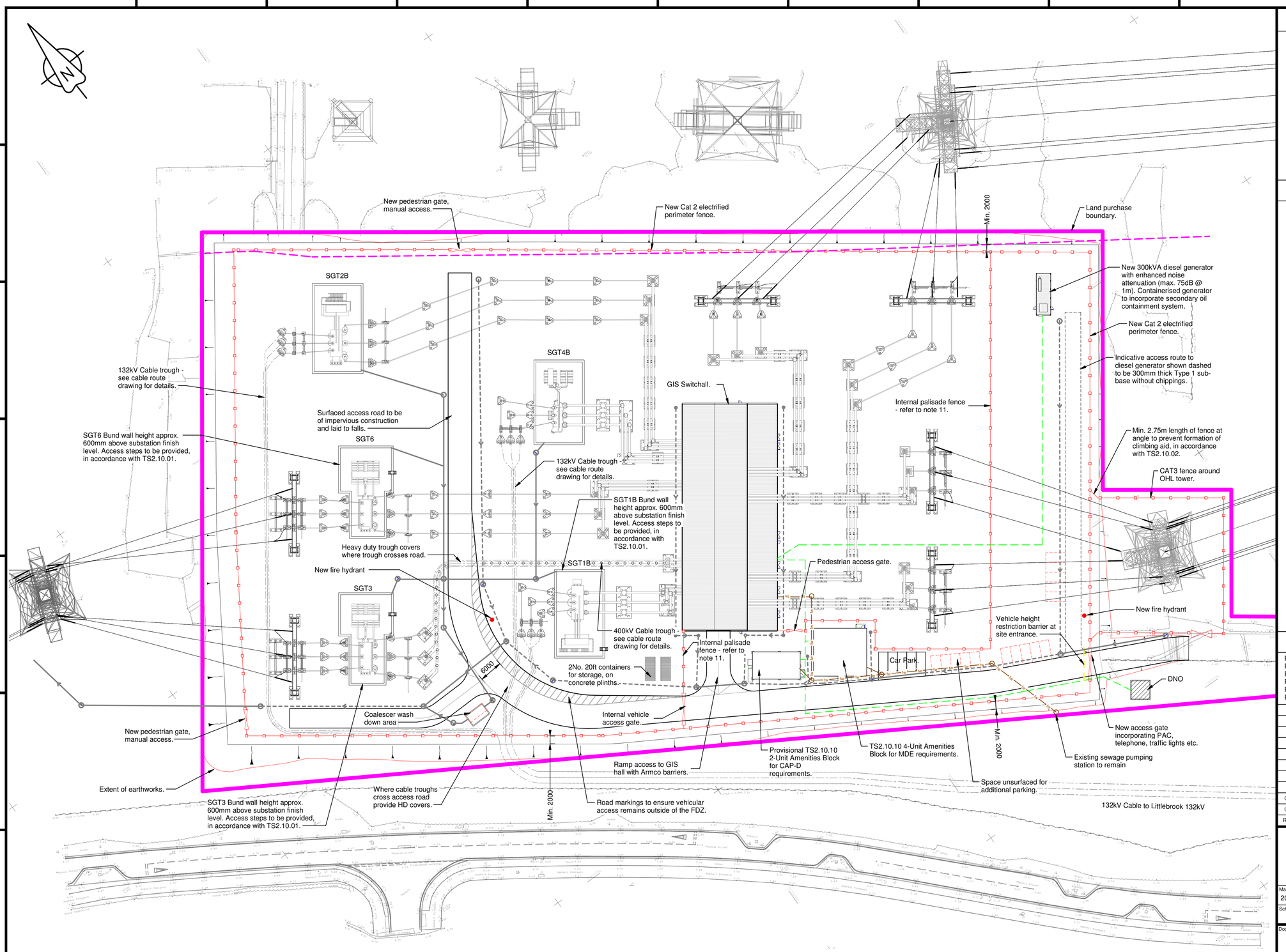

Civil Layout

SCALE 1 : 500

Interior and exterior site lighting to be provided to allow safe movement and operation of equipment in accordance with TS.2.10.04

0 10 20 30 40 50m

SCALE 1:500

NOTES

1. This is a stage 4.3 drawing and is for development purposes only.
2. All dimensions are in millimetres unless otherwise stated.
3. All levels are in metres and related to Ordinance Datum.
4. The background to this drawing is compiled from topographical survey undertaken by Jacobs Geomatics in May 2017, and by record drawings from National Grid's LiveLink system.
5. Location of known existing services are shown indicatively. Their exact location must be confirmed on site prior to commencement of construction works.
6. All slope gradients are shown at 1:3. Detailed design contractor to confirm suitable gradient for embankment.
7. Transformers to be contained within a noise enclosure, details to be confirmed by National Grid.
8. GIS Equipment and GIB made up of spare Tilbury Phase 2 equipment.
9. Foundation sizes shown are indicative, to be finalised during detailed design.
10. Typical substation surfacing 75mm chippings on 300mm Type 3 material.
11. Internal fence to be segregated from external fence earth.

LEGEND

- Fence Line
- Land Purchase Boundary
- Earthworks Boundary
- New Surface Water Pipe
- New French Drain
- New Foul Water Drainage
- New LV Supply
- New Mains Water Route
- Oil Draw Off
- Oil Separator
- Fire Hydrant

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following;

CONSTRUCTION

- Contractor shall be responsible for the stability of all existing and new structures for the duration of the contract
- The contractor shall allow for all necessary temporary works to be checked in accordance with TP184.
- Risk of explosion or electrocution from disturbing unidentified buried services and live cables. HSG 47 to be adhered to for any excavations.
- SF6 Gas leaks.
- Risk of contaminated ground throughout site. Continuous monitoring and testing to take place by Contractor.
- Risk of ground instability under heavy plant.
- Site identified as medium/high risk of possible interaction with unexploded ordinance during excavations.
- Construction in the vicinity of existing overhead lines to be completed in accordance with National Grid safety rules. Staged construction of West Thurrock 2 and SGT2B equipment required due to proximity of overhead lines - refer to stage by stage drawings for details.

MAINTENANCE / CLEANING

- Access to diesel generator and oil separator coalescer wash down area over unpaved substation compound.

DECOMMISSIONING / DEMOLITION

- SF6 Gas leaks

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

REFERENCE

PDD-20696-LAY-002	Hazard Plan, Littlebrook 400kV Substation
PDD-20696-LAY-005	Earthworks and Foundation Plan, Littlebrook 400kV Substation
PDD-20696-LAY-006	GIS Hall Plans & Elevations, Littlebrook 400kV Substation
PDD-20696-LAY-007	Drainage Plan, Littlebrook 400kV Substation
PDD-20696-LAY-009	Overall Layout, Littlebrook 400kV Substation
PDD-20696-HVC-001	132kV and 400kV Cable Routes, Littlebrook 400kV Substation

Rev	Description	Cre'd	Chk'd	App'd	Rev Date
01	ISSUED FOR ASSURANCE	VM	NR	MA	13.10.17
00	ISSUED FOR ASSURANCE	VM	NR	MA	22.09.17

nationalgrid

Master Scheme No:	Sub-Scheme No:	Site:
20696	N/A	LITTLEBROOK 400kV SUBSTATION

Scheme Name: LITTLEBROOK 400kV REPLACEMENT

Document Title: CIVIL LAYOUT LITTLEBROOK 400kV SUBSTATION

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Development Eng:	Document Type:	Scale:	Format:	Sheet(s):	Rev:
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National Grid Drawing Number: PDD-20696-LAY-004

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