

1. Contents

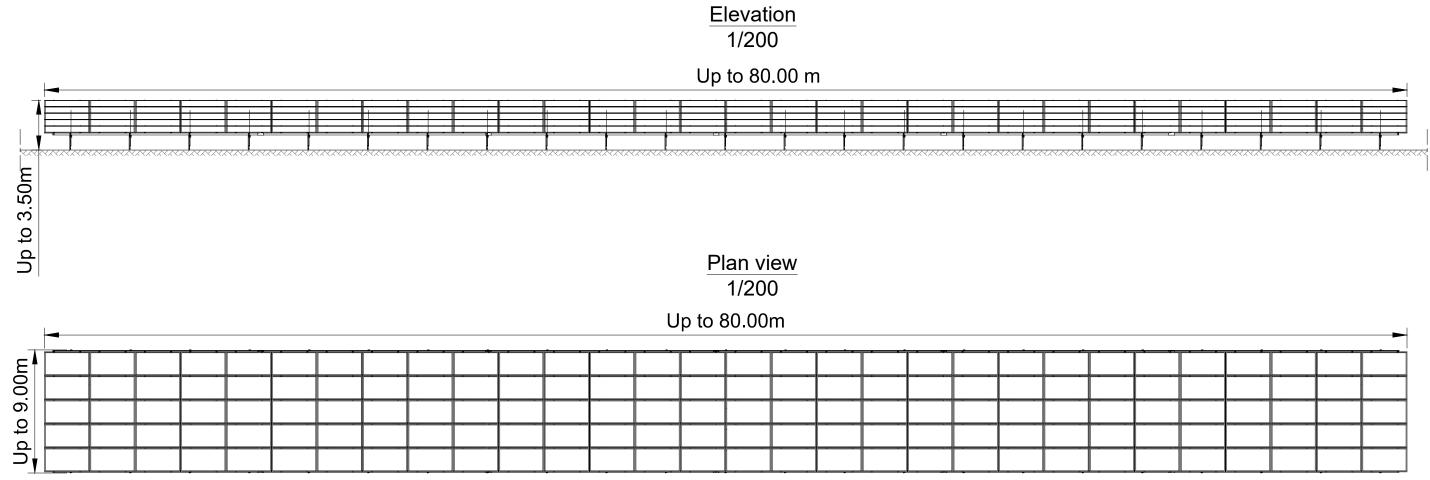
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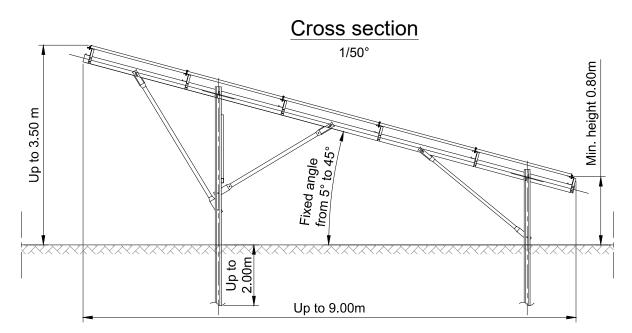
Gate Burton Energy Park EN010131

Engineering Section Drawings Document Reference: EN010131/APP/5.4 January 2023

Regulation 5(q) Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Gate Burton Energy Park Limited

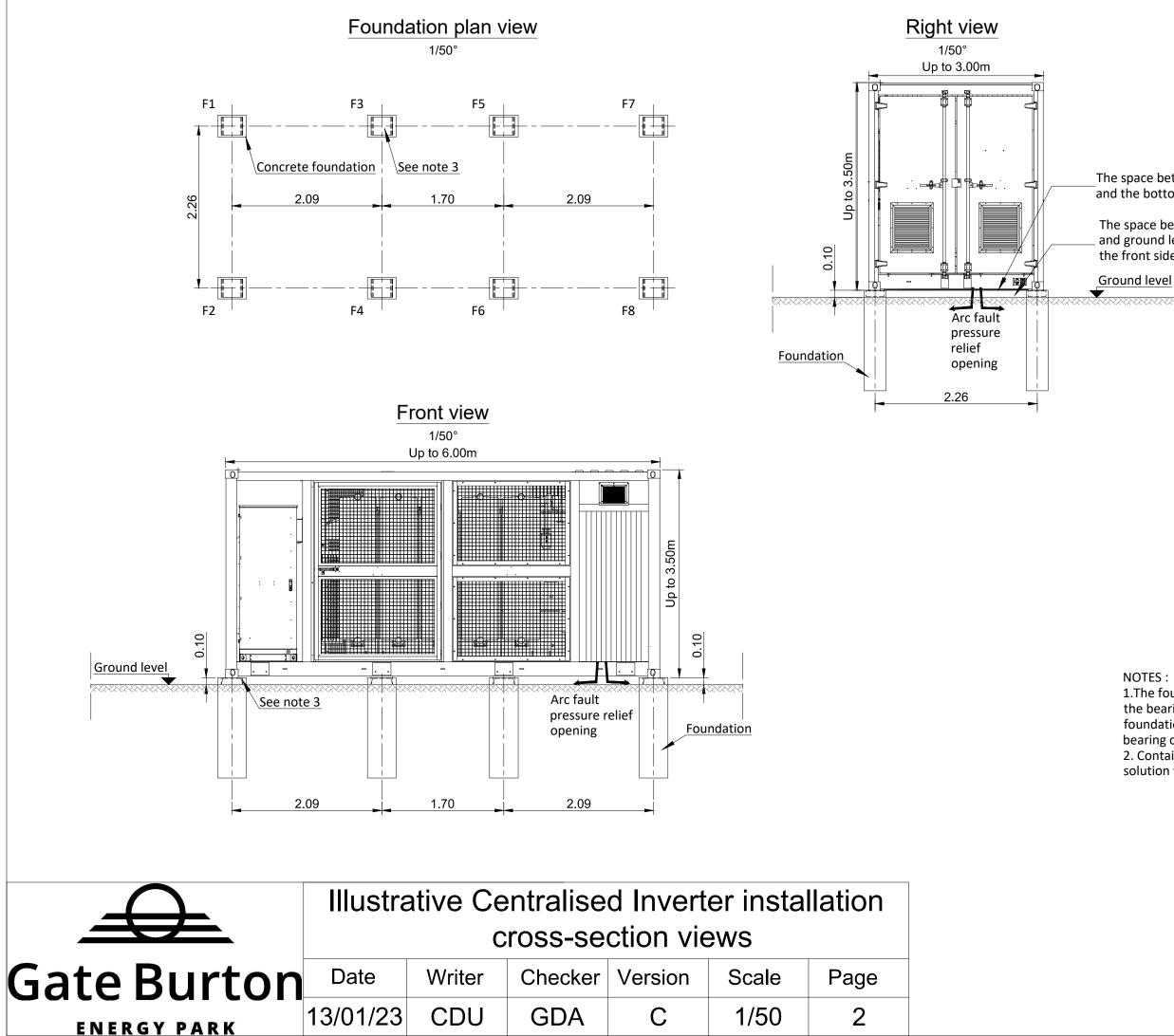




Example of a structure with 5x PV modules in landscape format (total width) with a string of 30x solar panels (total length)

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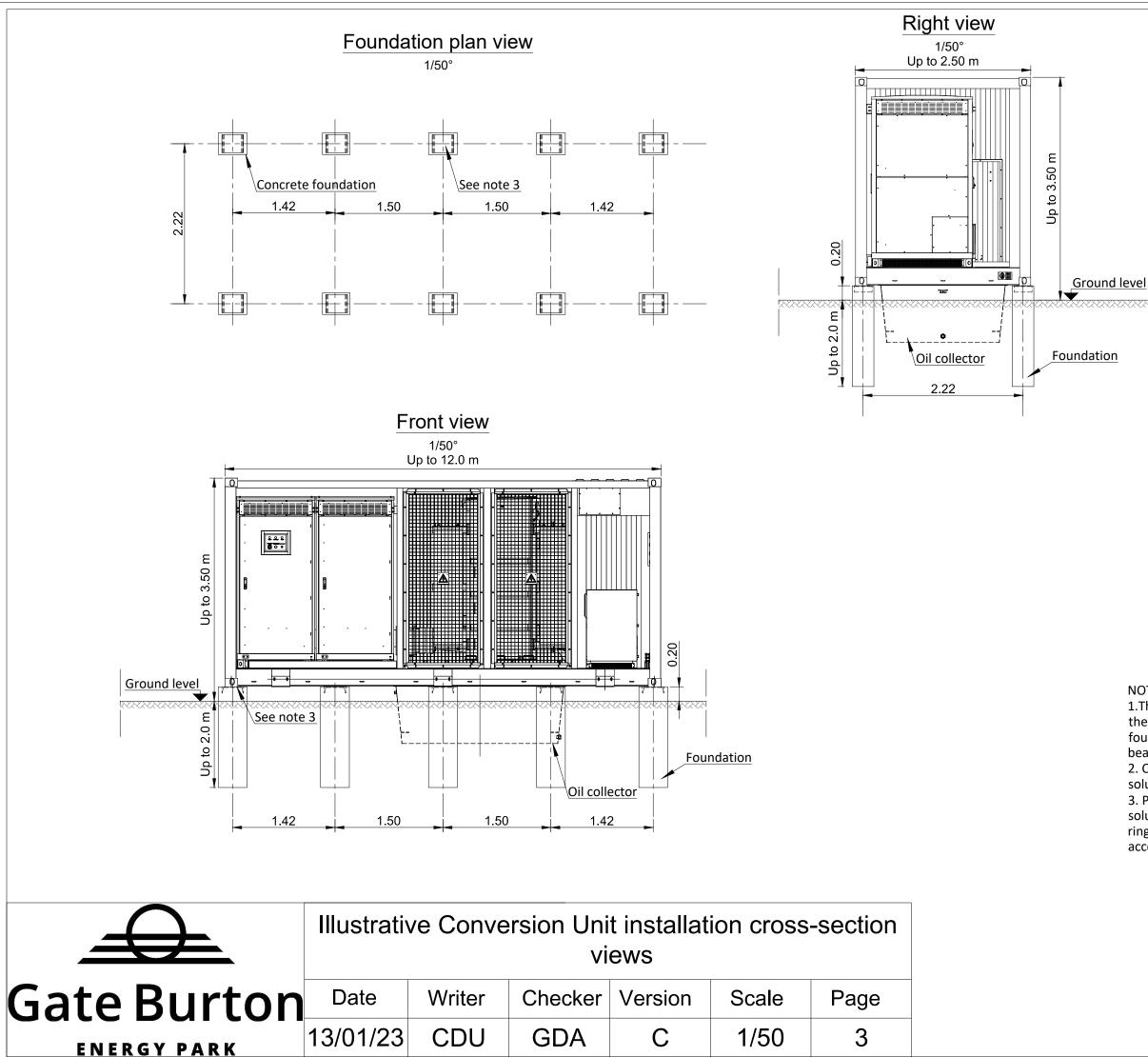
The space between the foundation + operating platform and the bottom of the container, needs to be obstructed.

The space between the operating platform and ground level shall be kept open on the front side of the operating platform.

NOTES :

1. The foundation dimensions must meet the requirements of the bearing capacity of the bearing stratum. The depth of the foundation must reach the bearing stratum with the sufficient bearing capacity.

2. Container has to be anchored to the foundation. The solution will be produce by the supplier.

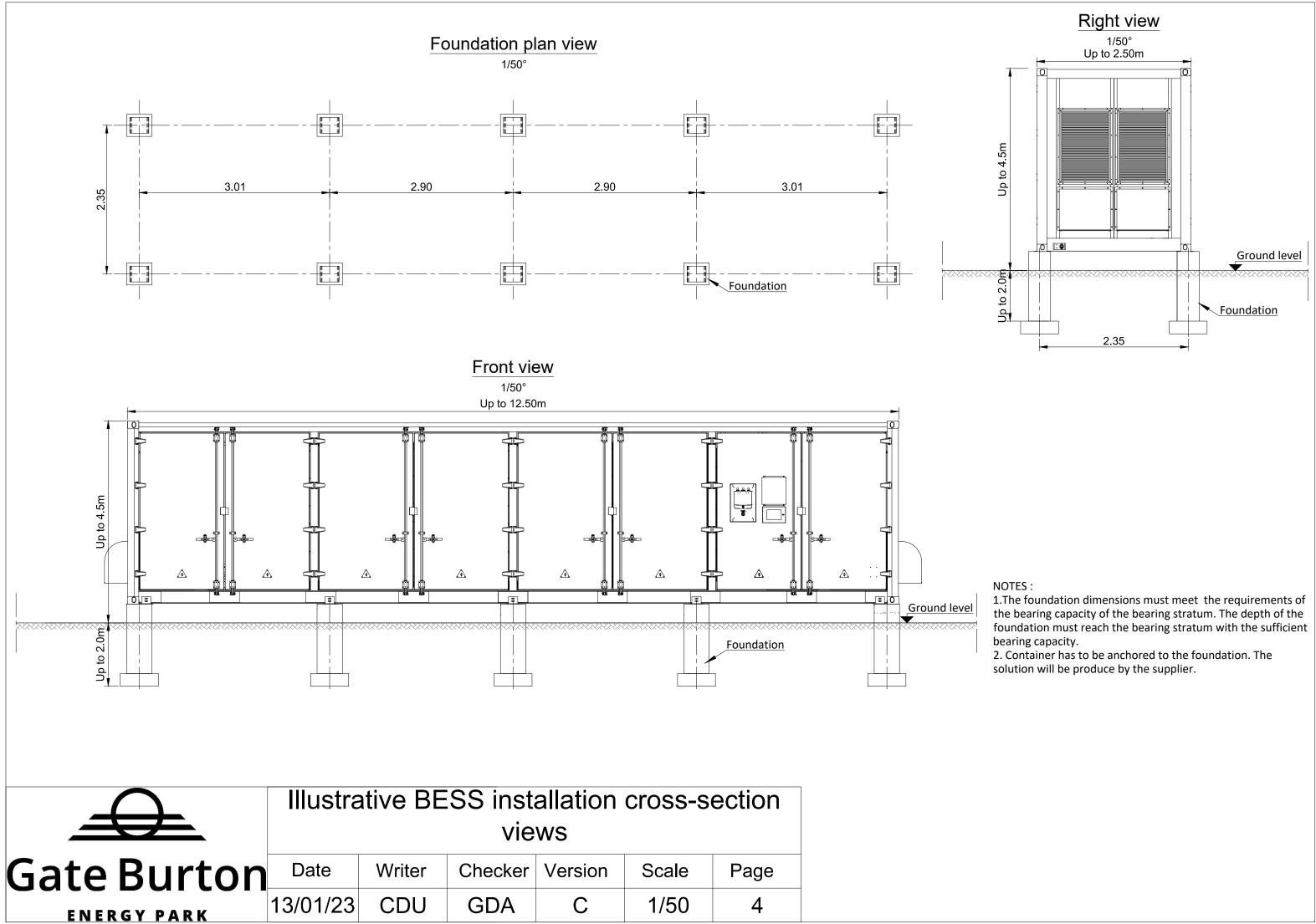




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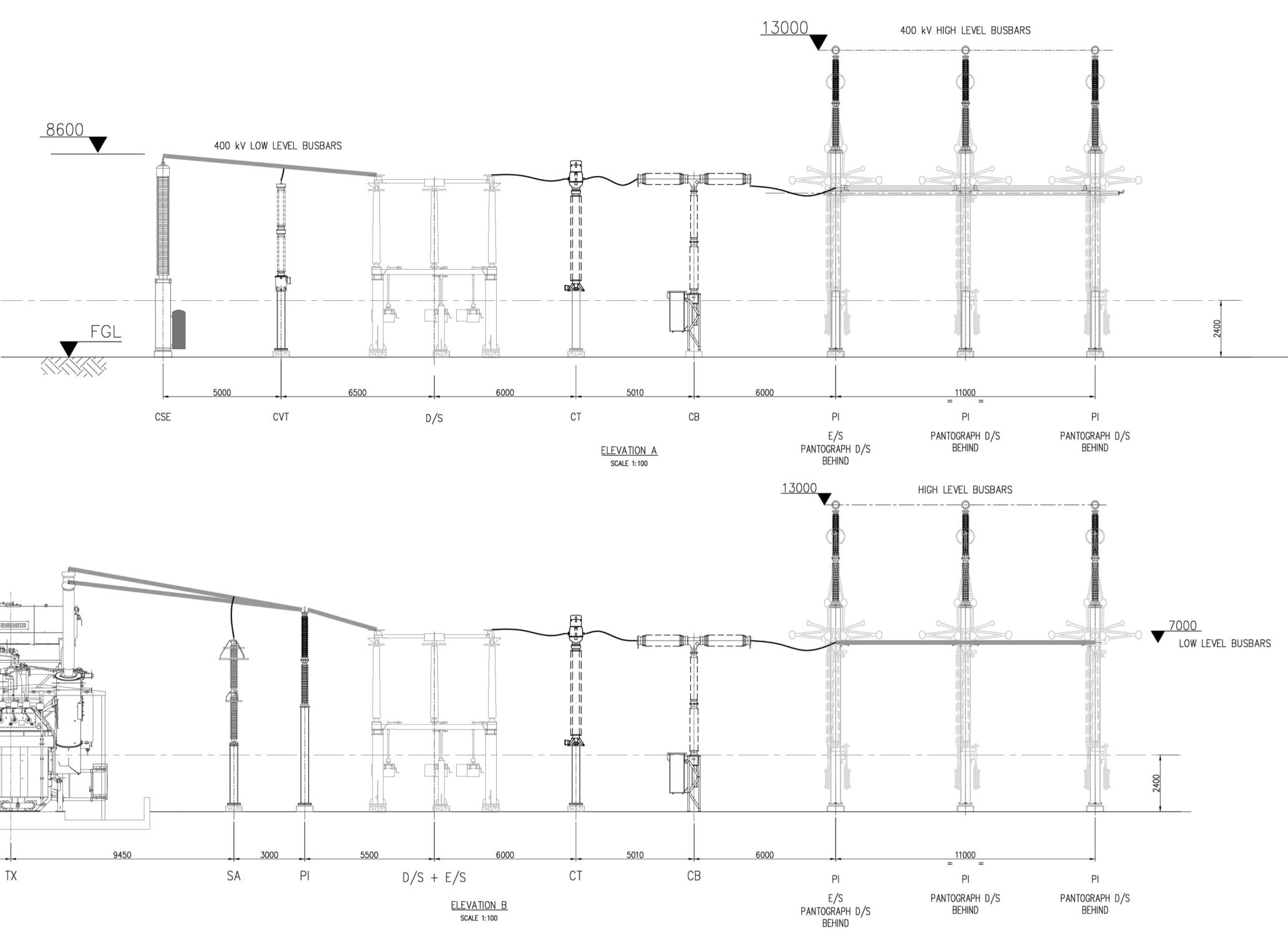
3. Power Conversion Unit (PCU) : means the containerised solution consisting of one or more inverters, transformer and ring main unit along with auxiliary supplies and other accessories.

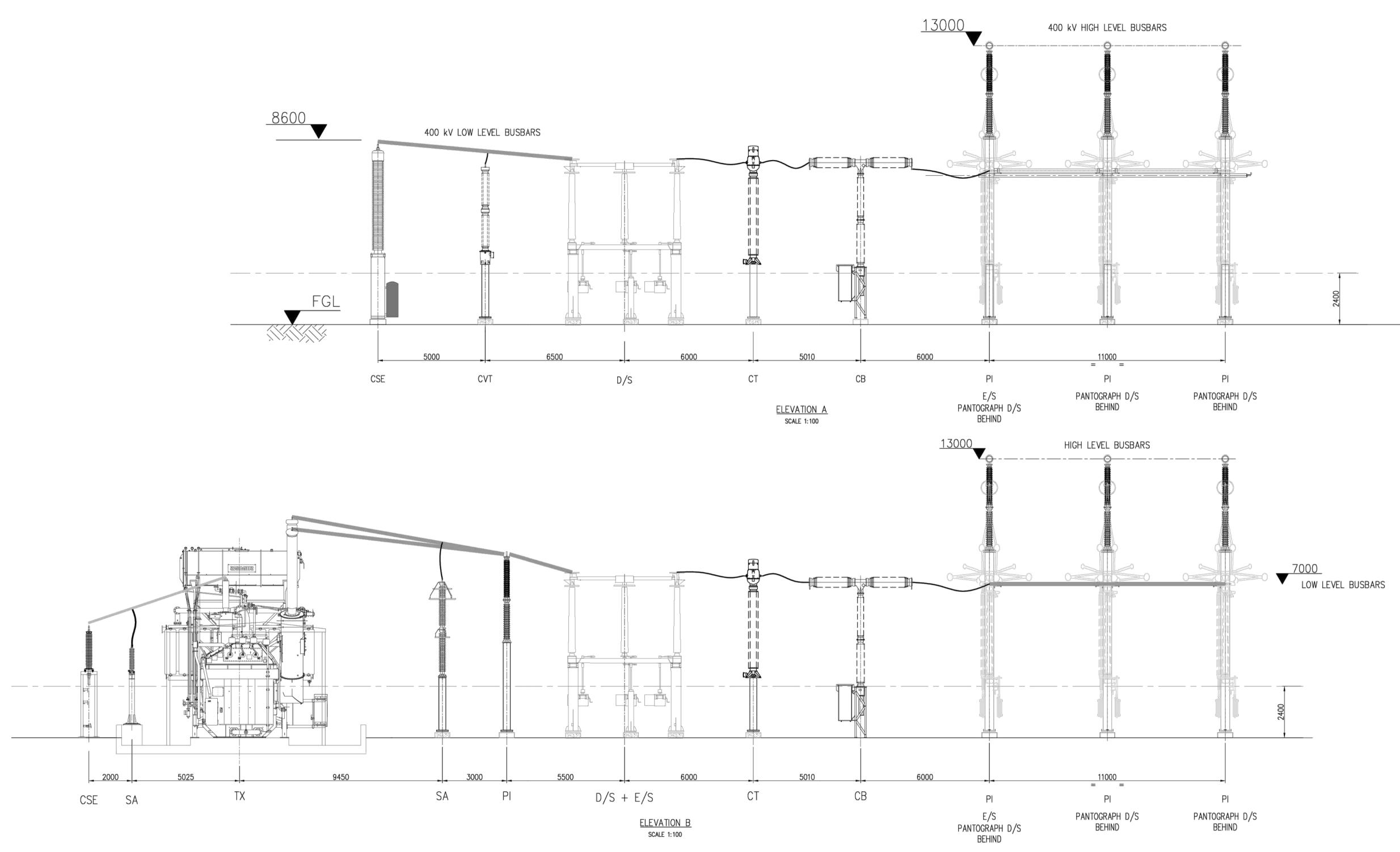




400kV MINIMUM ELECTRICAL CLEARANCE	S
DESCRIPTION	DISTANCE (m)
PHASE TO PHASE CLEARANCE	3.6
PHASE TO EARTH CLEARANCE	2.8
DESIGN CLEARANCE FOR SAFETY (VERTICAL) Dst	5.5
DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	4.6
INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4
SAFETY DISTANCE	3.1
MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) Ds2	7.5
MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	6.6

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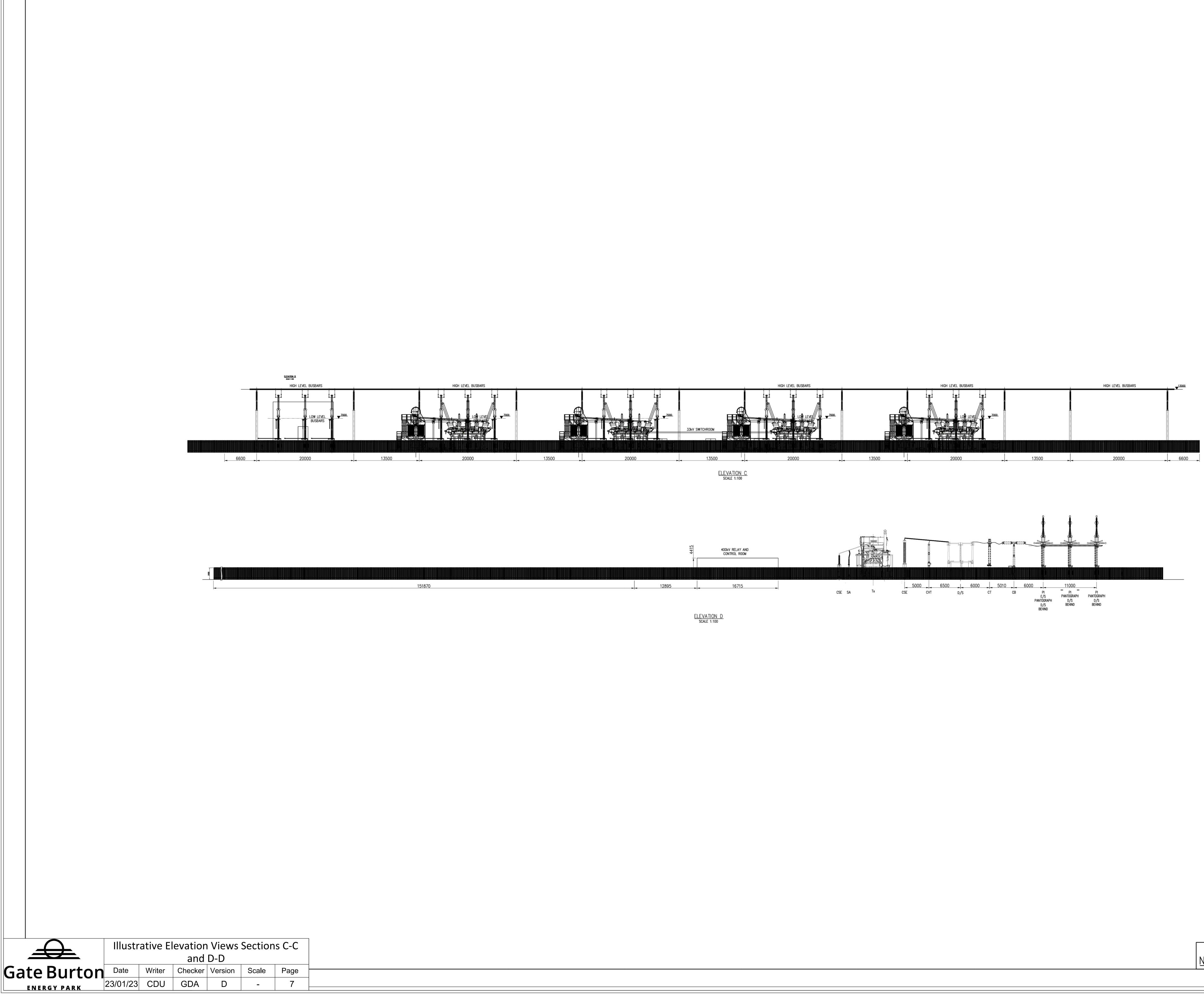




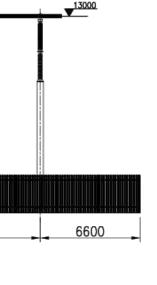
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MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DsH2	6.6

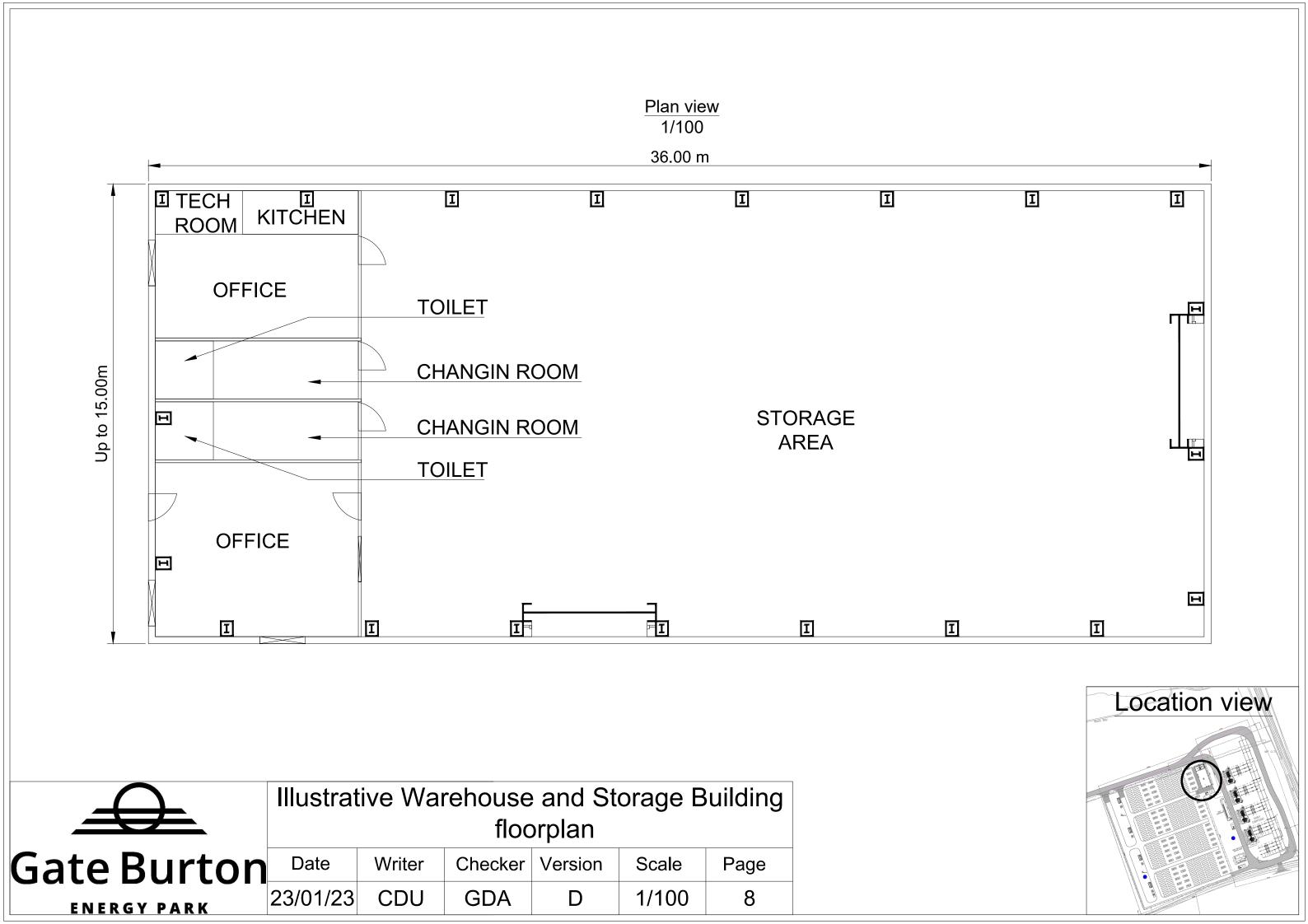
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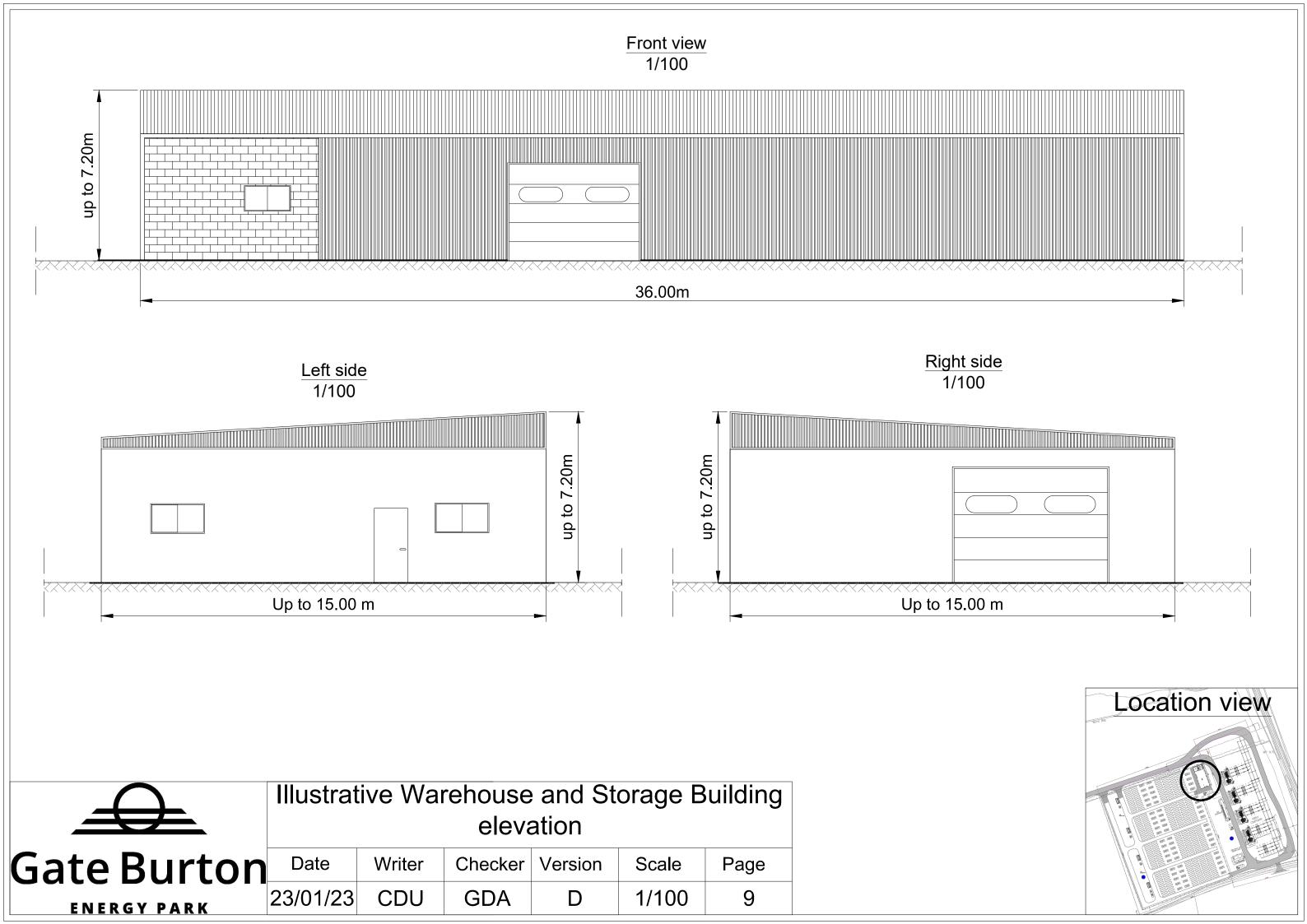


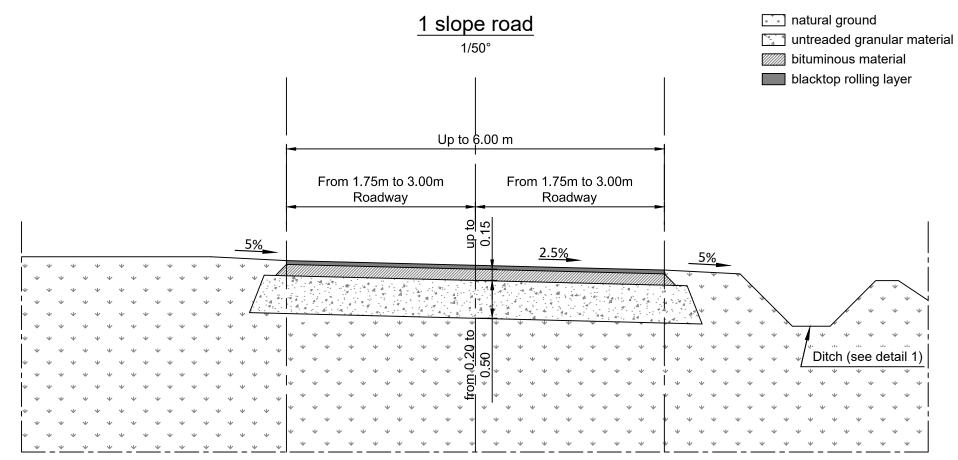
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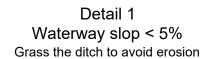


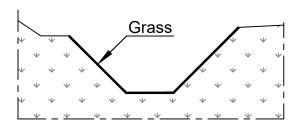
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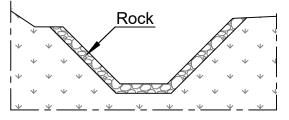


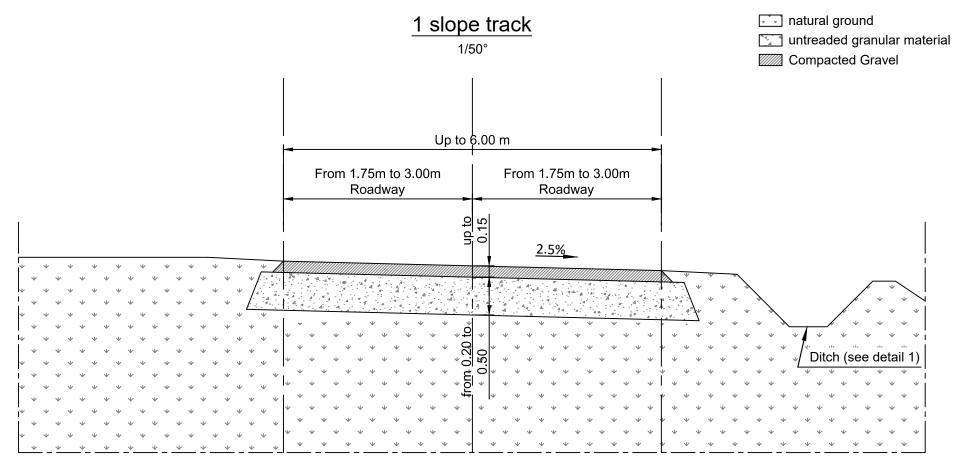


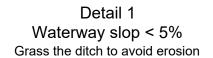
Illustrative proposed design for sections of access roads near the public highway with high frequency use.

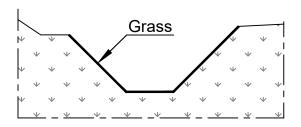
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Detail 1 Waterway slop > 5% To avoid erosion ditch has to be rockfilled cemented or with a geotextile



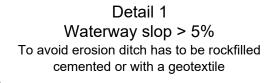


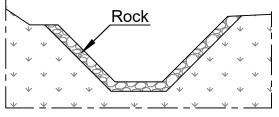


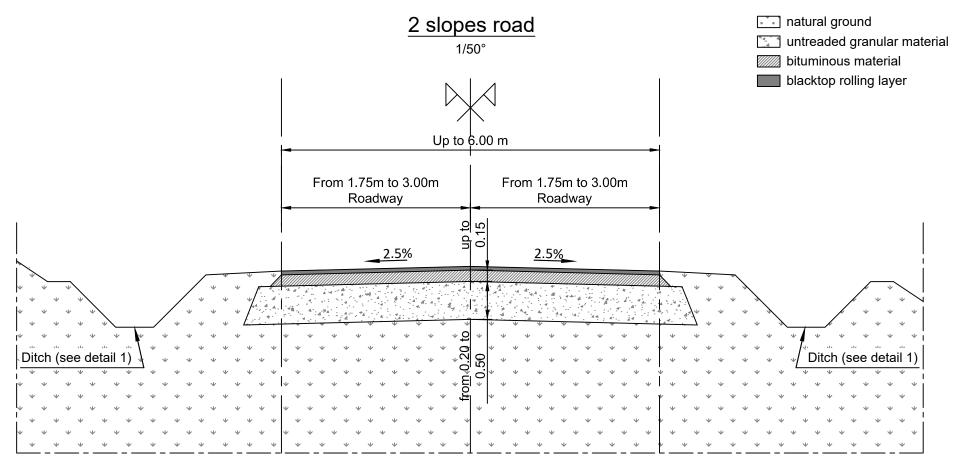


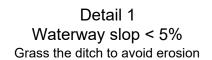
Illustrative proposed design for all internal tracks except main track from the A156 to the BESS and sections near the public highway.

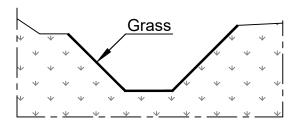
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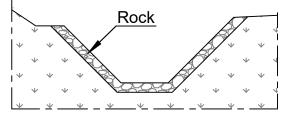


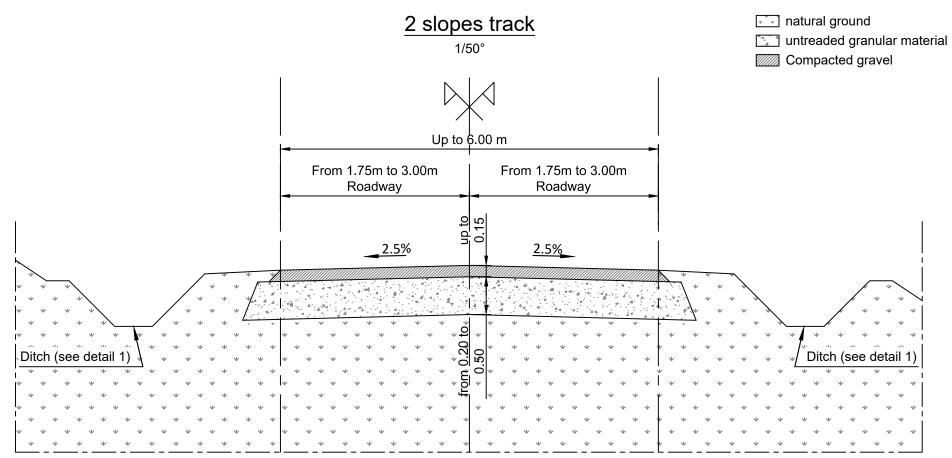


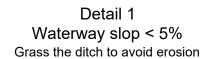
Illustrative proposed design for sections of access roads near the public highway with high frequency use.

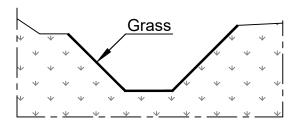
	Illustrative Access Road cross-section: dual slope								
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Detail 1 Waterway slop > 5% To avoid erosion ditch has to be rockfilled cemented or with a geotextile





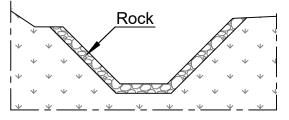


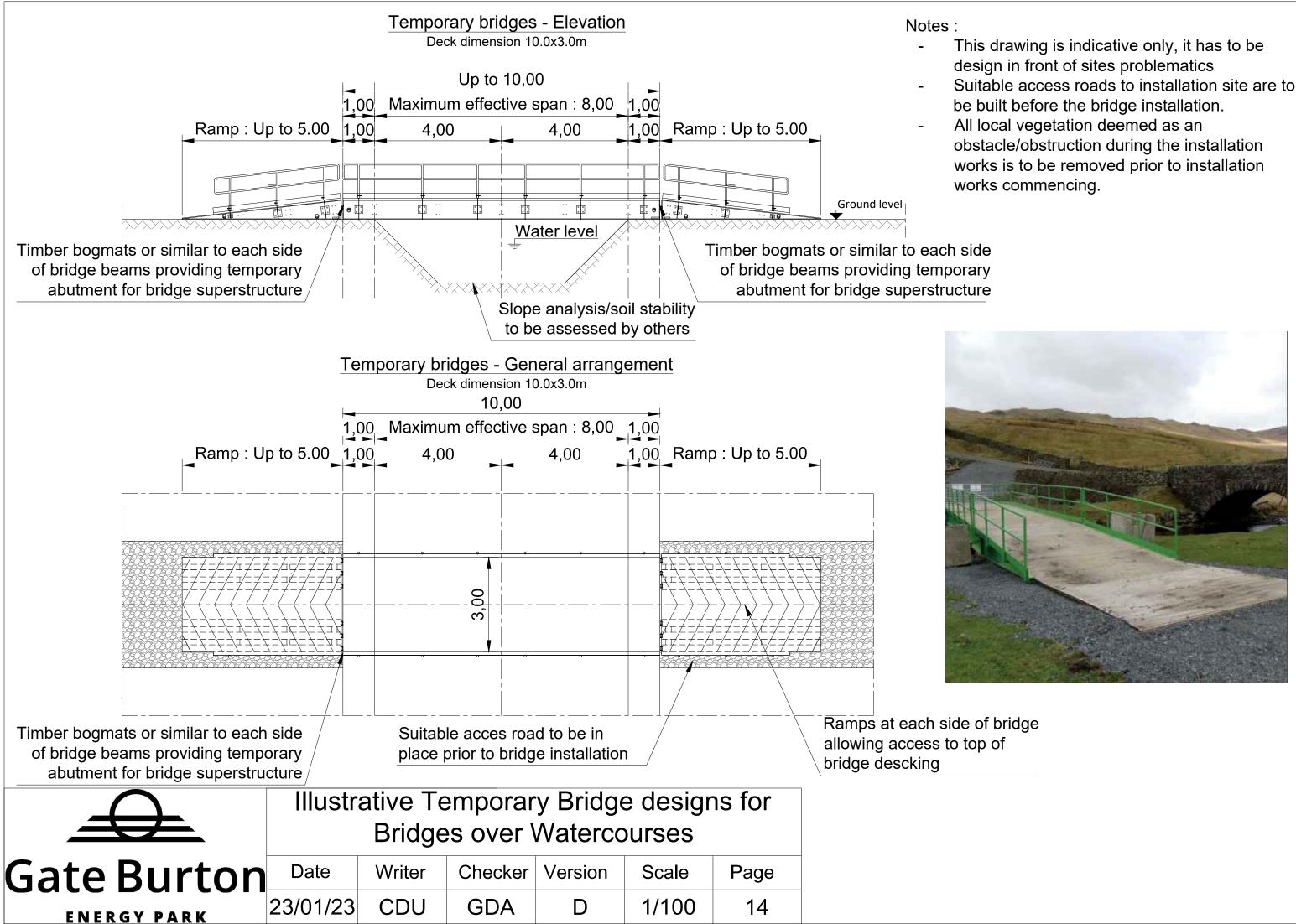


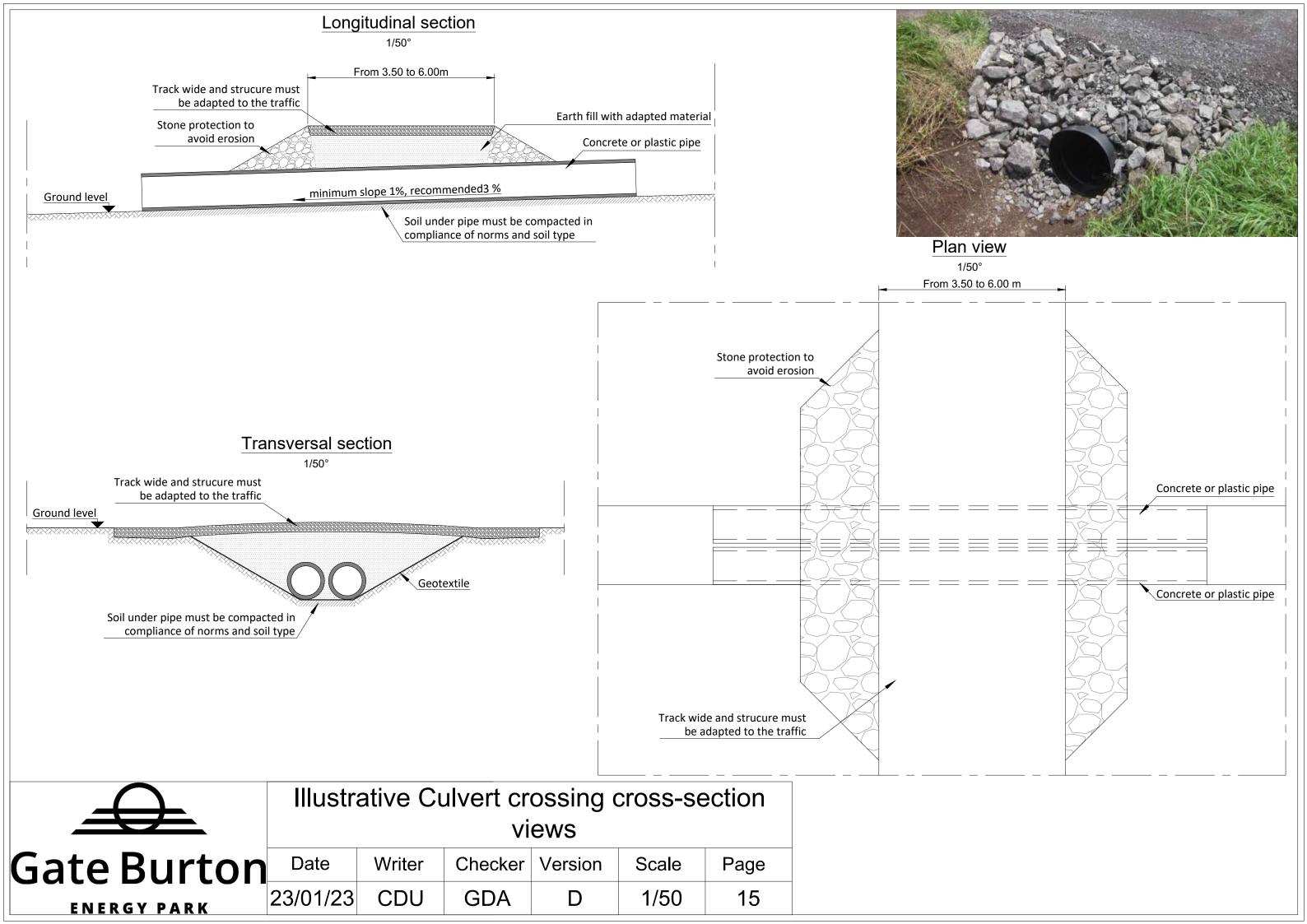
Illustrative proposed design for the main track from the A156 to the BESS.

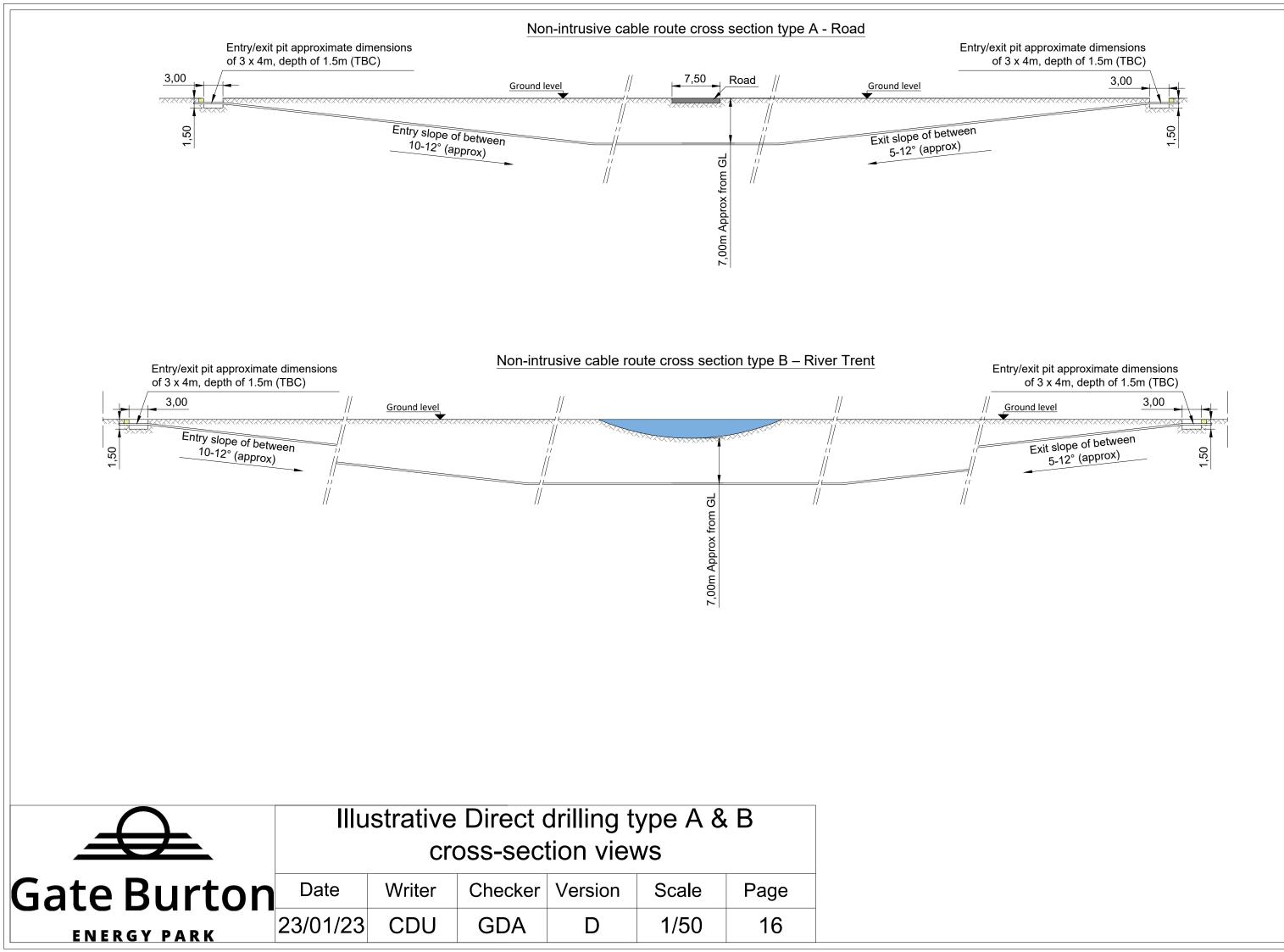
	Illustrative Main Track cross-section: dual slope									
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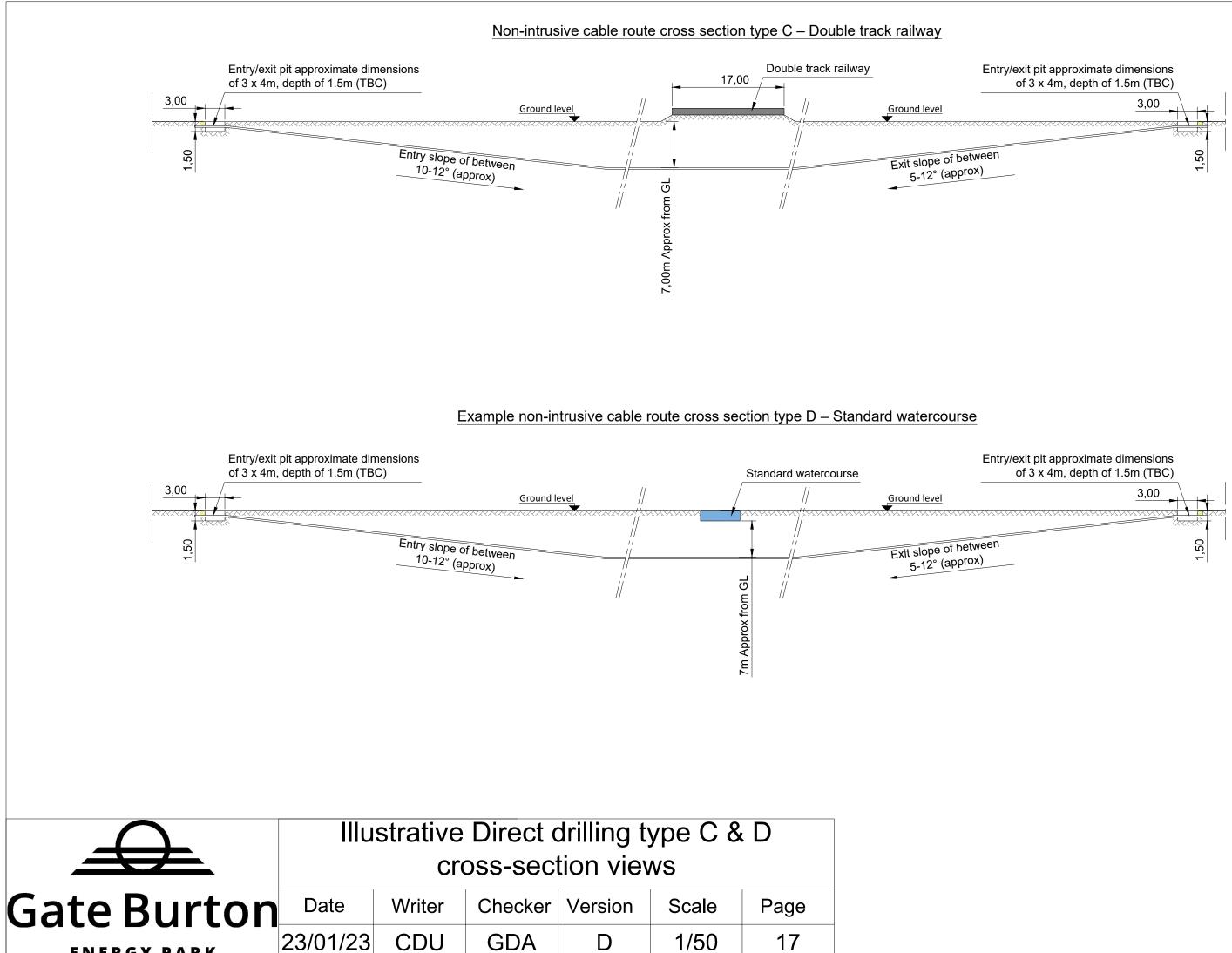
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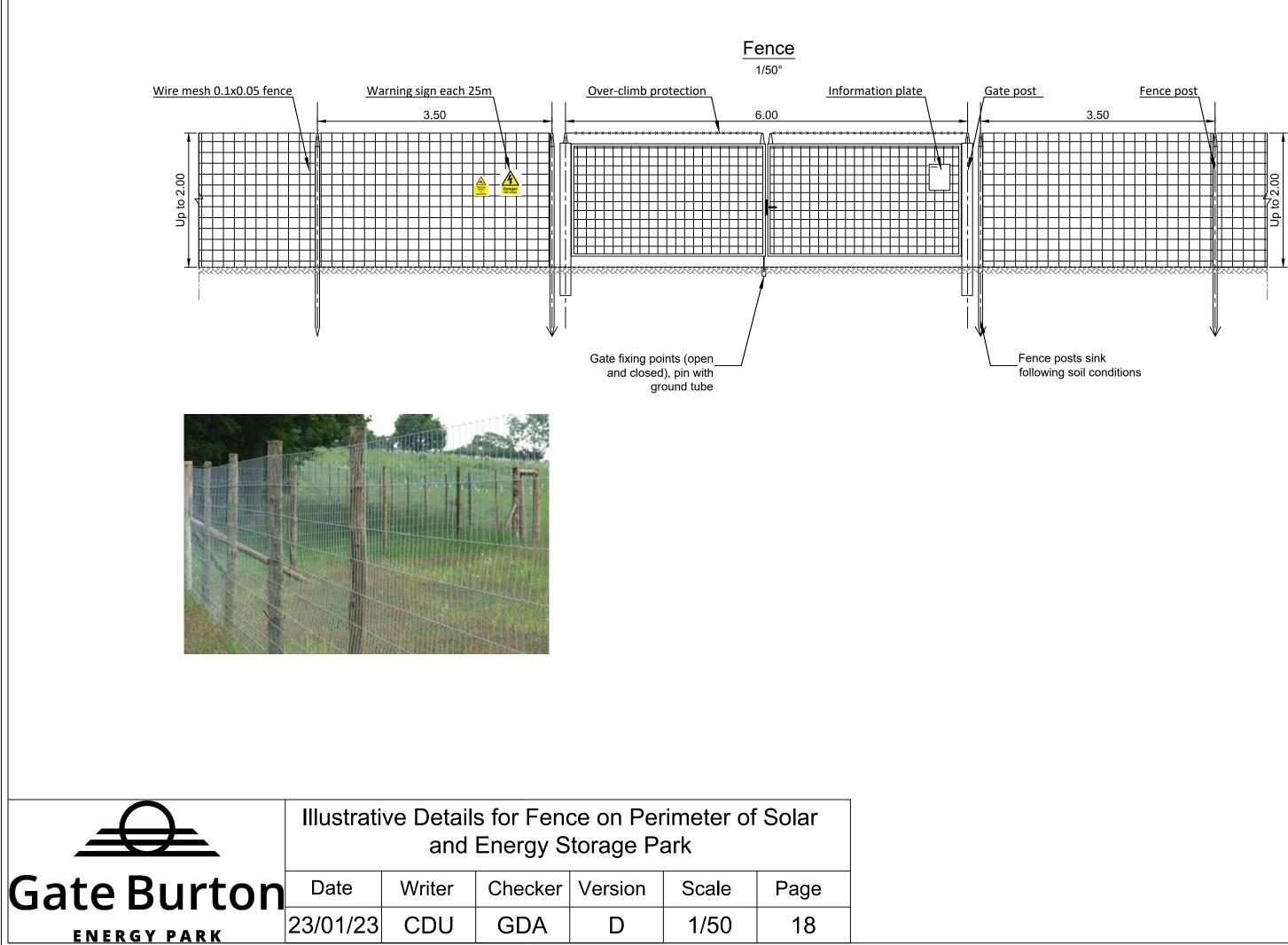


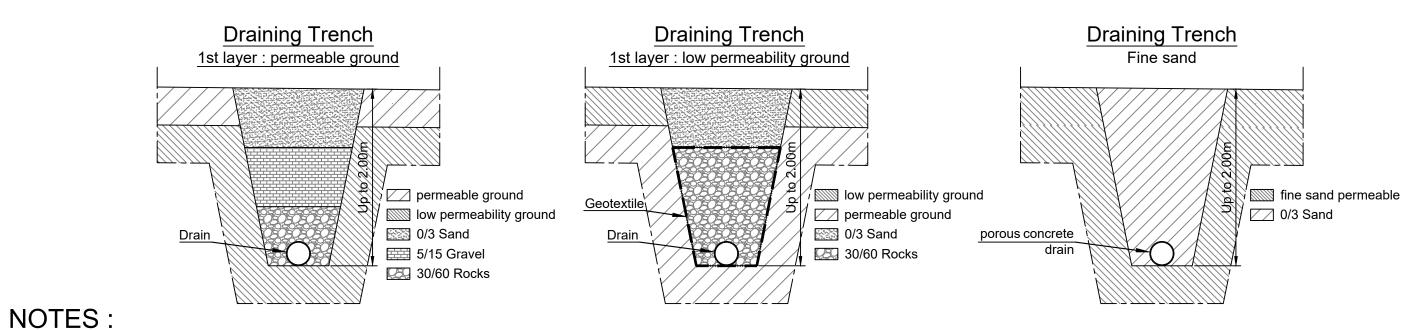






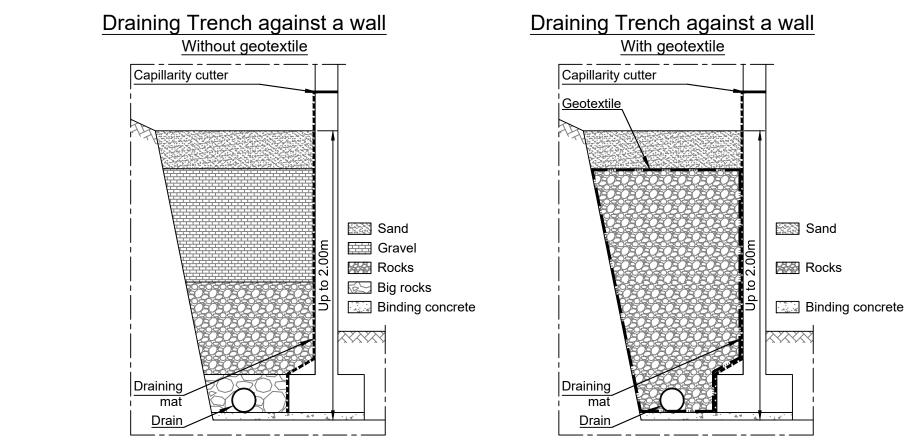
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Drainage trench examples above can be used in the field in order to improve drainage on site.



NOTES :

Drainage trench against wall examples above can be used for drainage of any building with basement (e.g: substation, storage building).

	Illustrative Drainage Trench cross-section views									
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