



National Grid Great Grid Partnership (GGP)

PTNO/PTC1

Pentir – Drainage Technical Note
PTNO-WSP-SS52-C00484-MEM-CP-000001-P01

2025-09-15



Distribution

National Grid

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Revisions

Rev	Date	Details
P01	2025-09-15	First Issue

Pentir - Drainage Technical Note

Introduction

WSP UK Ltd (WSP) has been commissioned by National Grid to provide a drainage Technical Note outlining preliminary surface water drainage details for a proposed substation at Pentir.

The development is at an existing National Grid substation, located near Pentir and Bangor in North Wales. The existing site is approximately 7ha and is largely impermeable. The site is located at National Grid Reference: 255911, 367772.

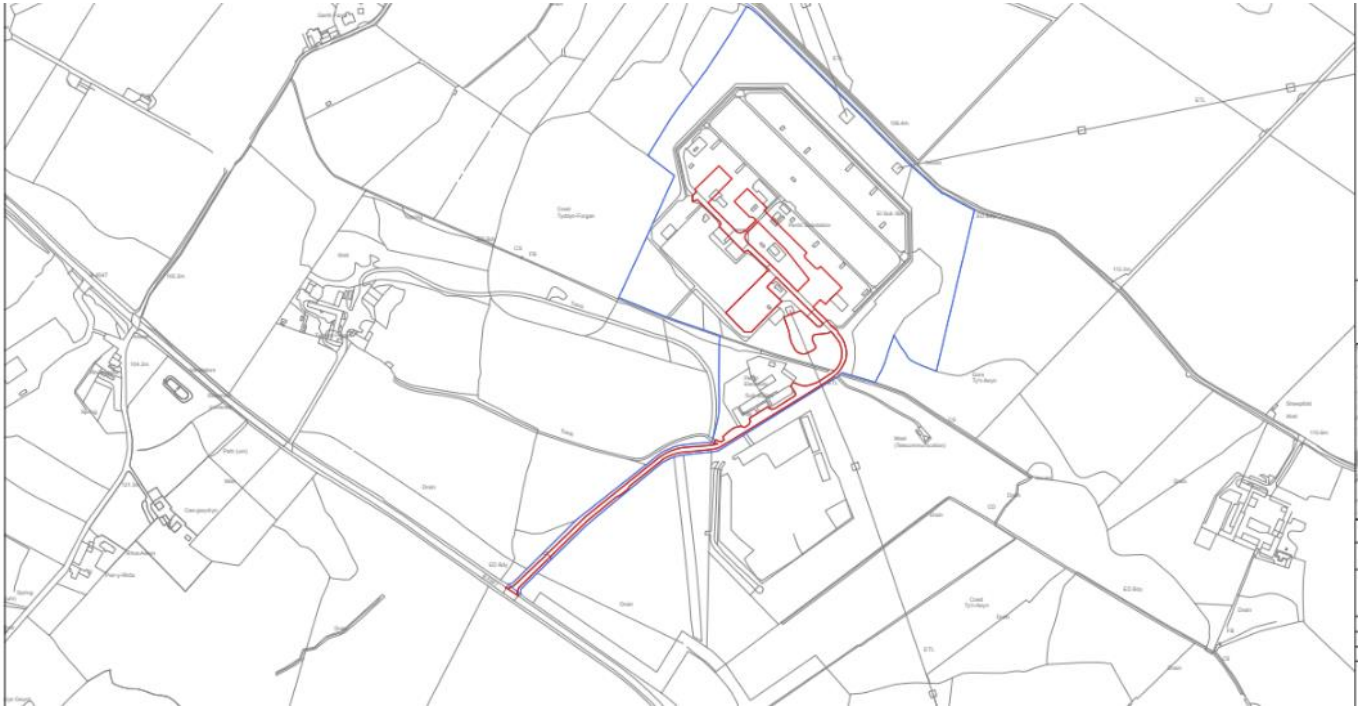


Figure 1 – Pentir Location Plan

The scope of works involves connecting one part of the existing substation to another part with new below ground high voltage (HV) cables, as well as bringing new conductors from the existing overhead line tower into another part of the existing substation. This is shown in Appendix A.

The work is limited to replacement and upgrade of existing infrastructure within the existing substation footprint. The substation footprint will not be altered by the proposed works and there will be no change to permeable or impermeable areas. No new drainage assets are proposed to be introduced and there are no alterations planned to existing drainage assets.

It is understood that there are no drainage related issues on site and as per Figure 2, the site does not fall within an existing fluvial, tidal or surface water flood risk zone.

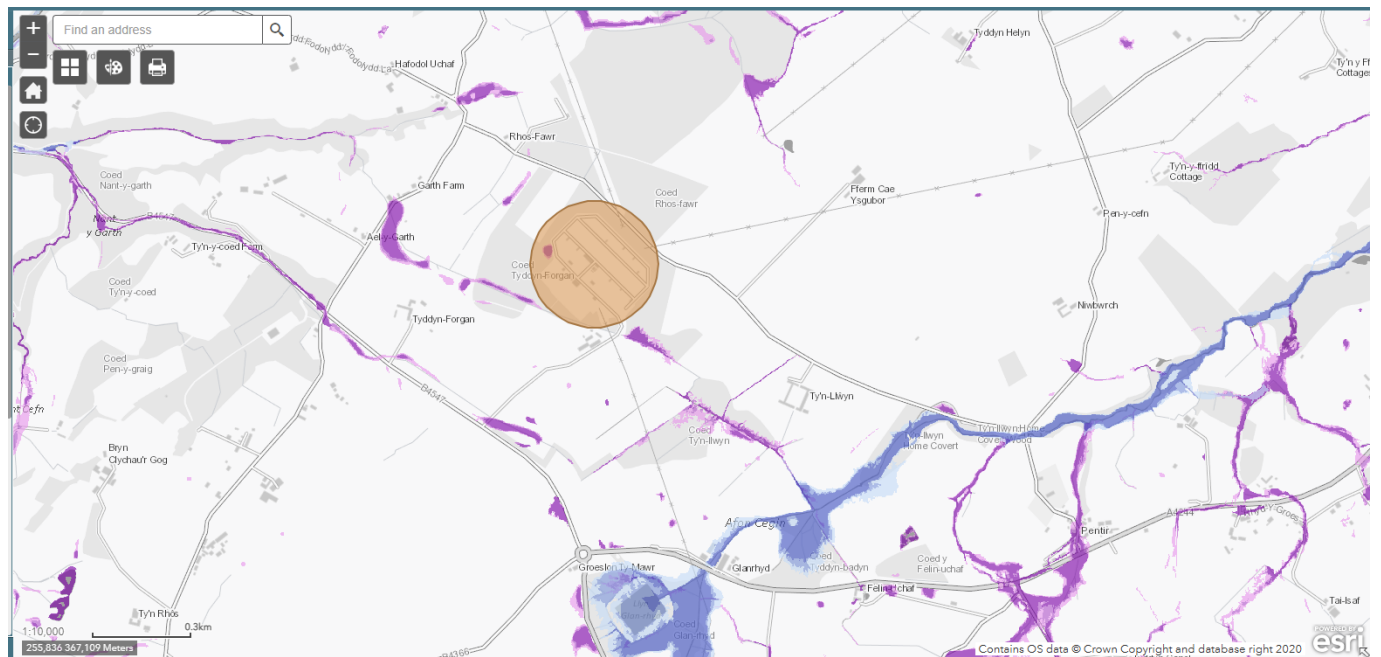


Figure 2 - NRW Fluvial and Surface Water Flood Map, September 2025

Summary

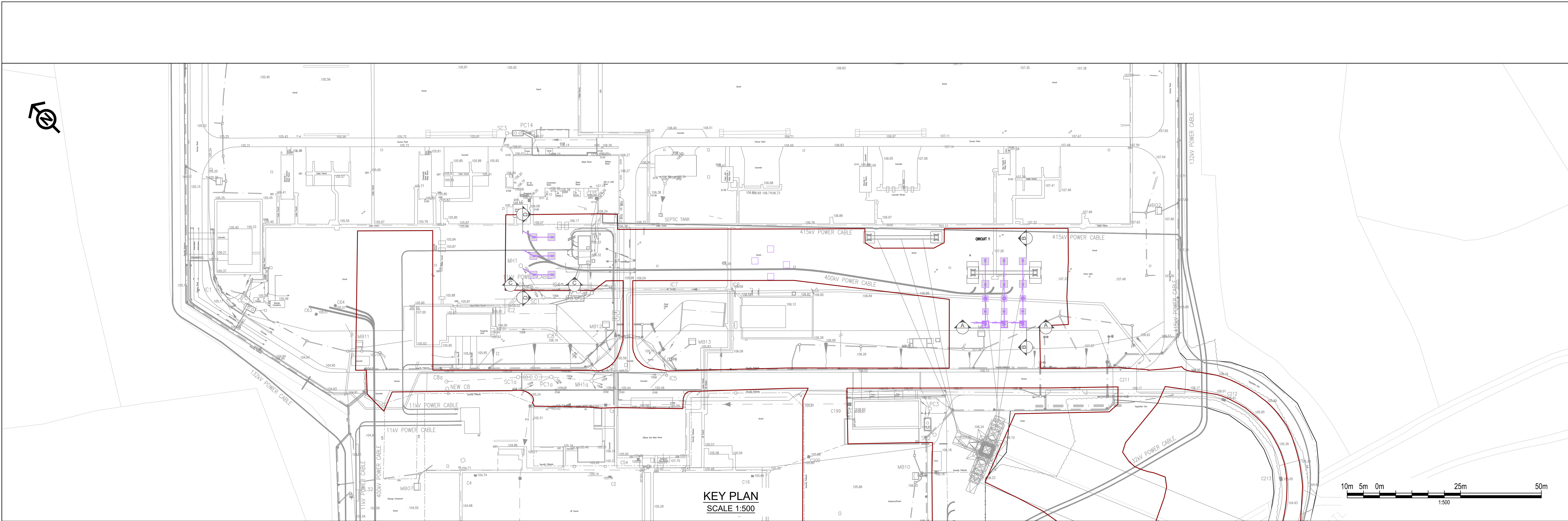
Based on the above, the proposed cabling works at this site do not require Sustainable Drainage Approval Body (SAB) pre SAB or Full SAB applications, as there will be no alteration to the existing permeable or impermeable areas, no introduction of new drainage assets, and no modification to existing drainage infrastructure.

Therefore, it can be considered that the proposed works do not include “construction work with drainage implications”, which would be a trigger for requiring SAB approval consent under Schedule 3 of the Flood and Water Management Act 2010. The Welsh Government’s SuDS Statutory Standards confirm that SAB approval is only required for new developments or redevelopments of 100 m² or more of construction area that create new surface water drainage or increase impermeable area; the proposed works do not meet this threshold. In addition, Gwynedd Council’s SAB Guidance states that works limited to maintenance, upgrades or internal changes within an existing development footprint without drainage implications are not subject to SAB approval.

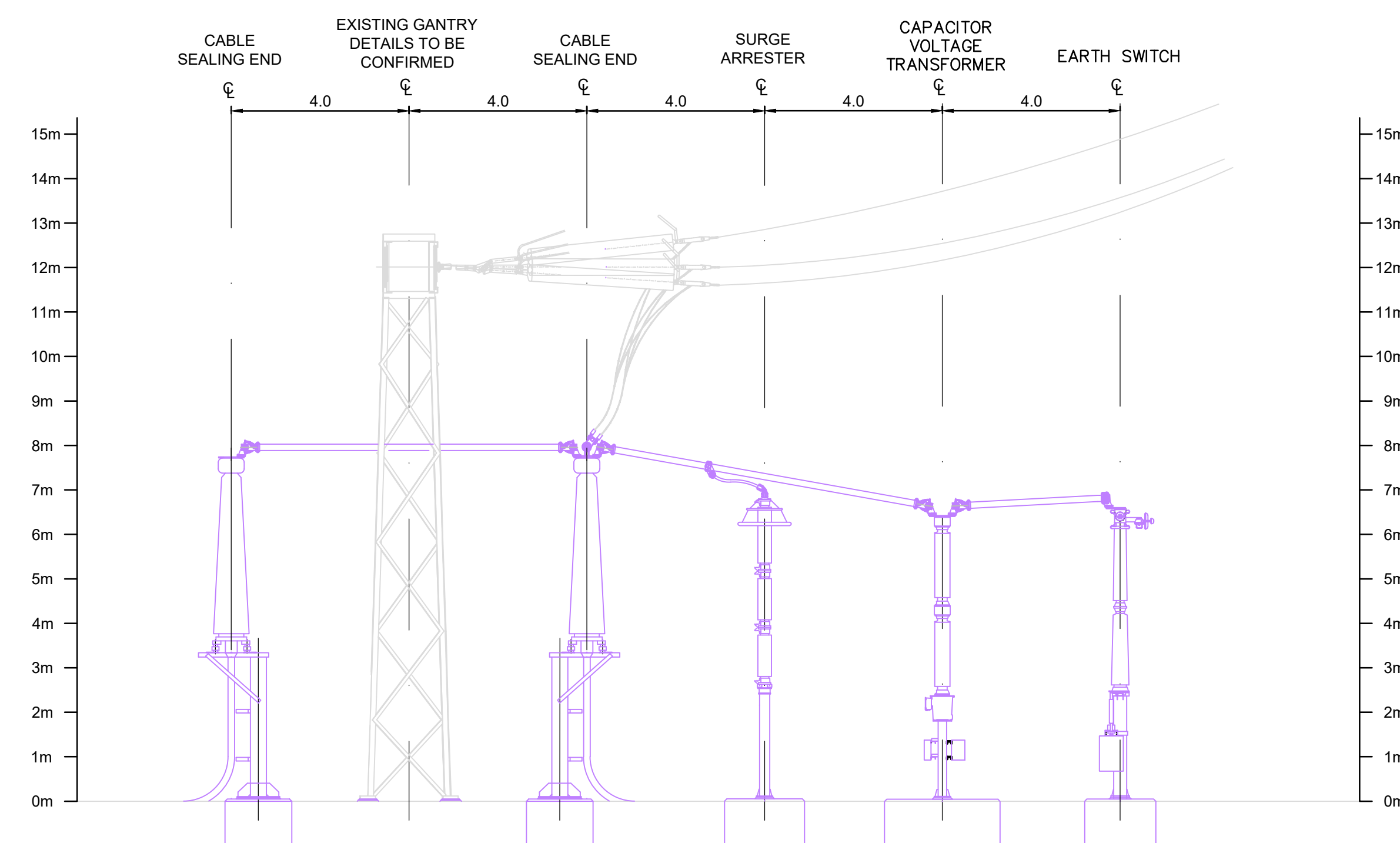
Accordingly, and in line with the above legislation and guidance, it is concluded that the proposed works will not require a SAB application.



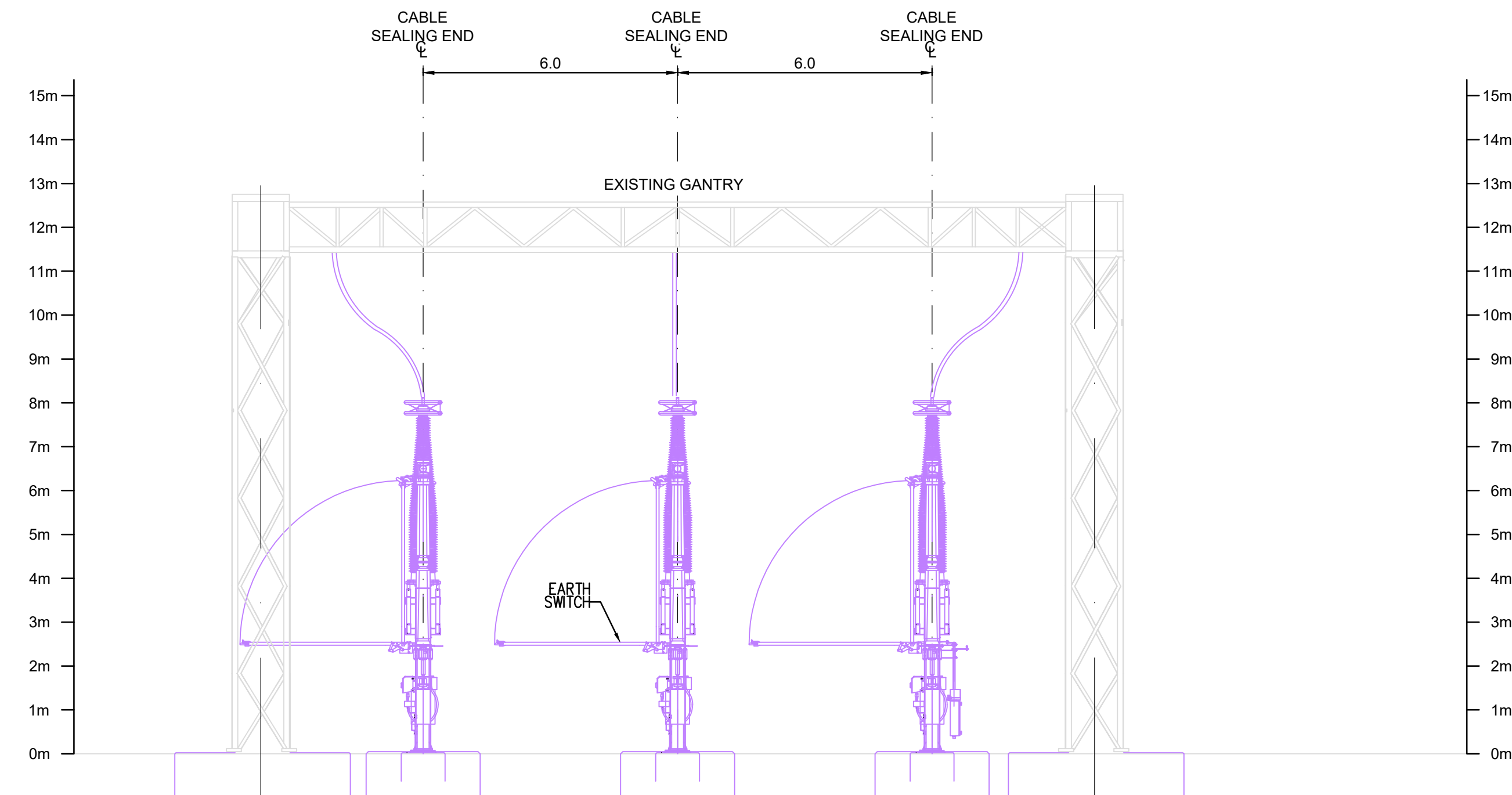
Appendix A – Indicative Site Layout



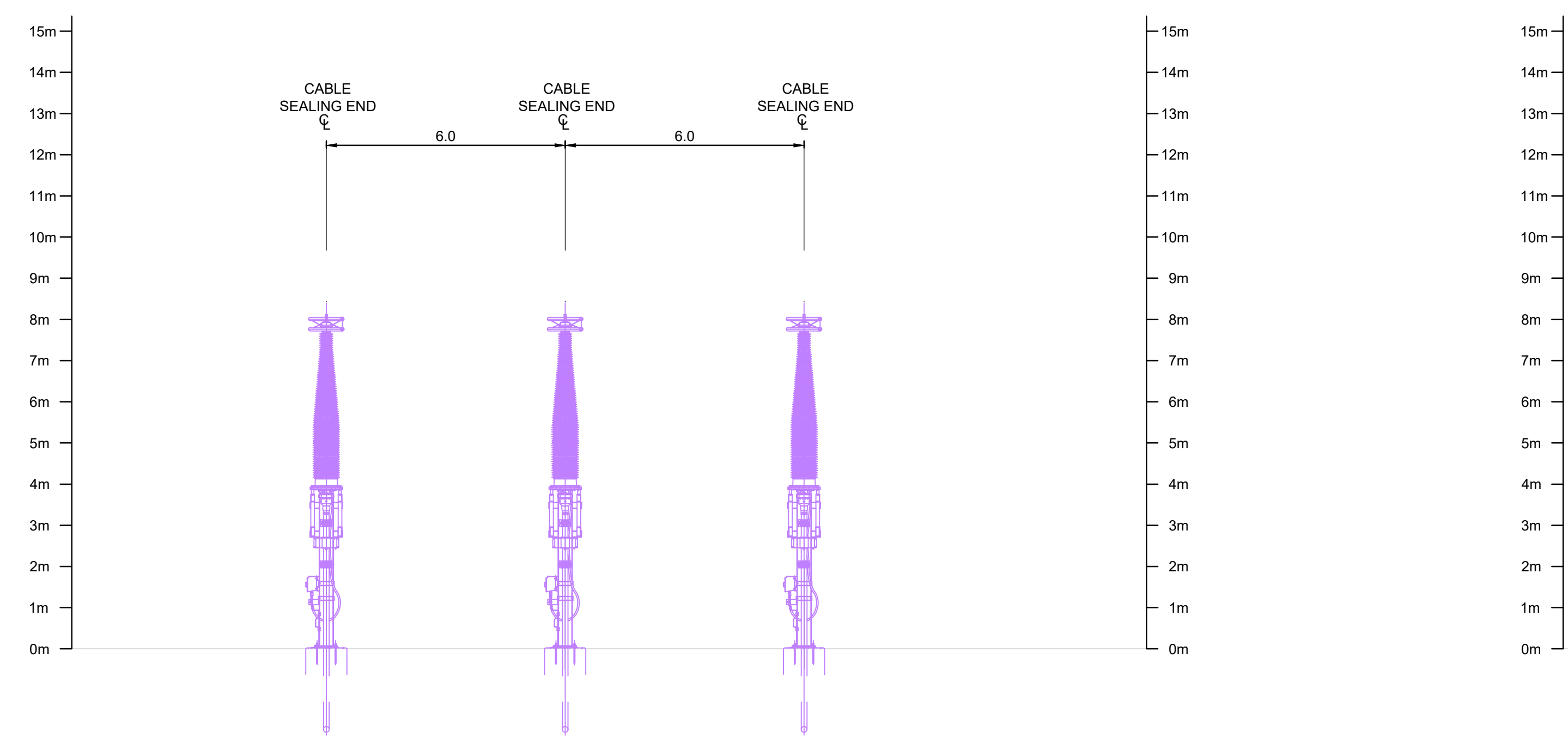
- Legend**
- APPLICATION SITE BOUNDARY
 - PROPOSED ABOVE GROUND EQUIPMENT
 - EXISTING PENTIR SUBSTATION
 - PROPOSED PLANT FOUNDATIONS



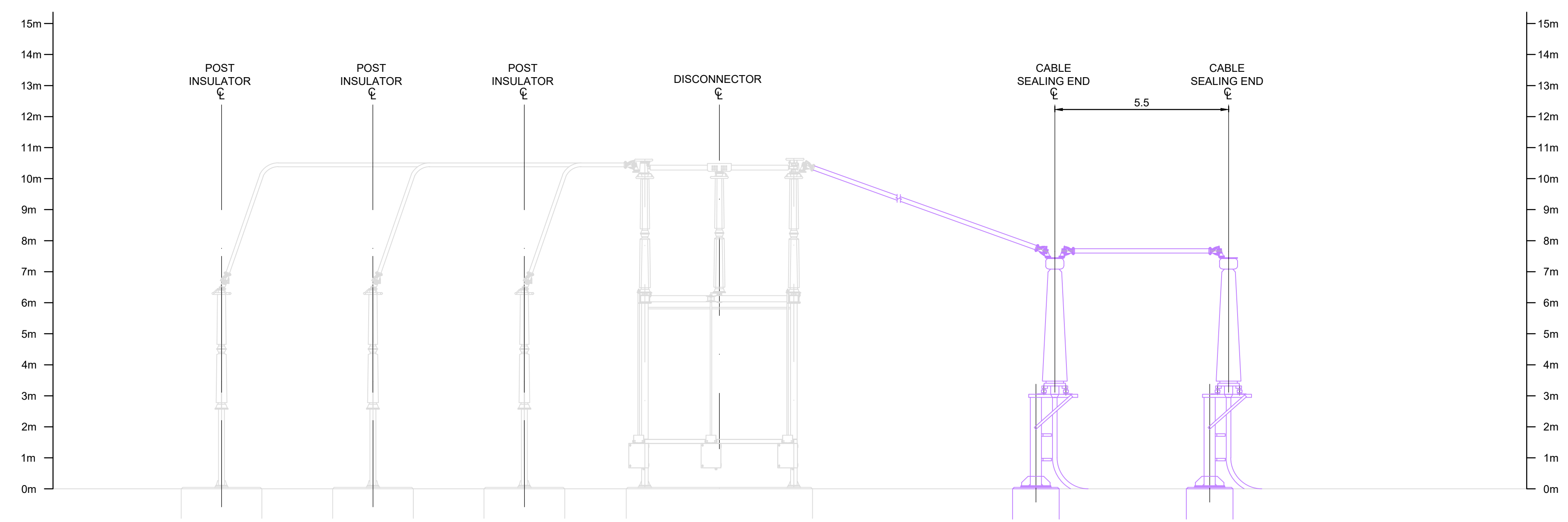
SECTION B-B



SECTION A-A



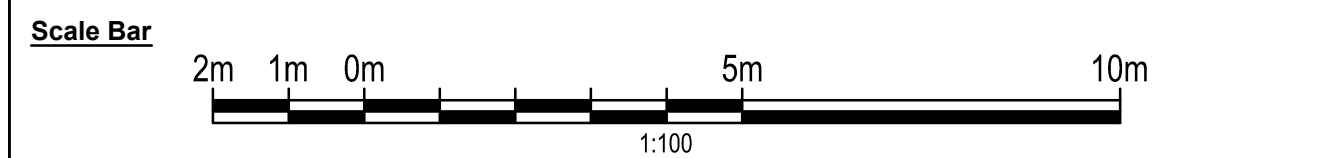
SECTION D-D



SECTION C-C

Notes

This drawing is scaled at paper size A0, therefore any prints taken at smaller sizes will affect accuracy of the measurement units and should not be scaled against



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Issue	Date	Remarks	Drawn	Checked	Approved
P01	12/09/25	FIRST ISSUE		TM	MT RW

Title

PENTIR
EXISTING AND PROPOSED SECTIONS
(FOR TCPA)

nationalgrid			
<u>Figure Number</u>		PTC1 / PTNO - PENTIR	
<u>Drawing Reference</u>		PTNO-WSP-SS52-C00484-DRW-CP-000004	
Scale	Sheet Size	Sheet	Issue
1:100	A0	SHEET 1 OF 1	1

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