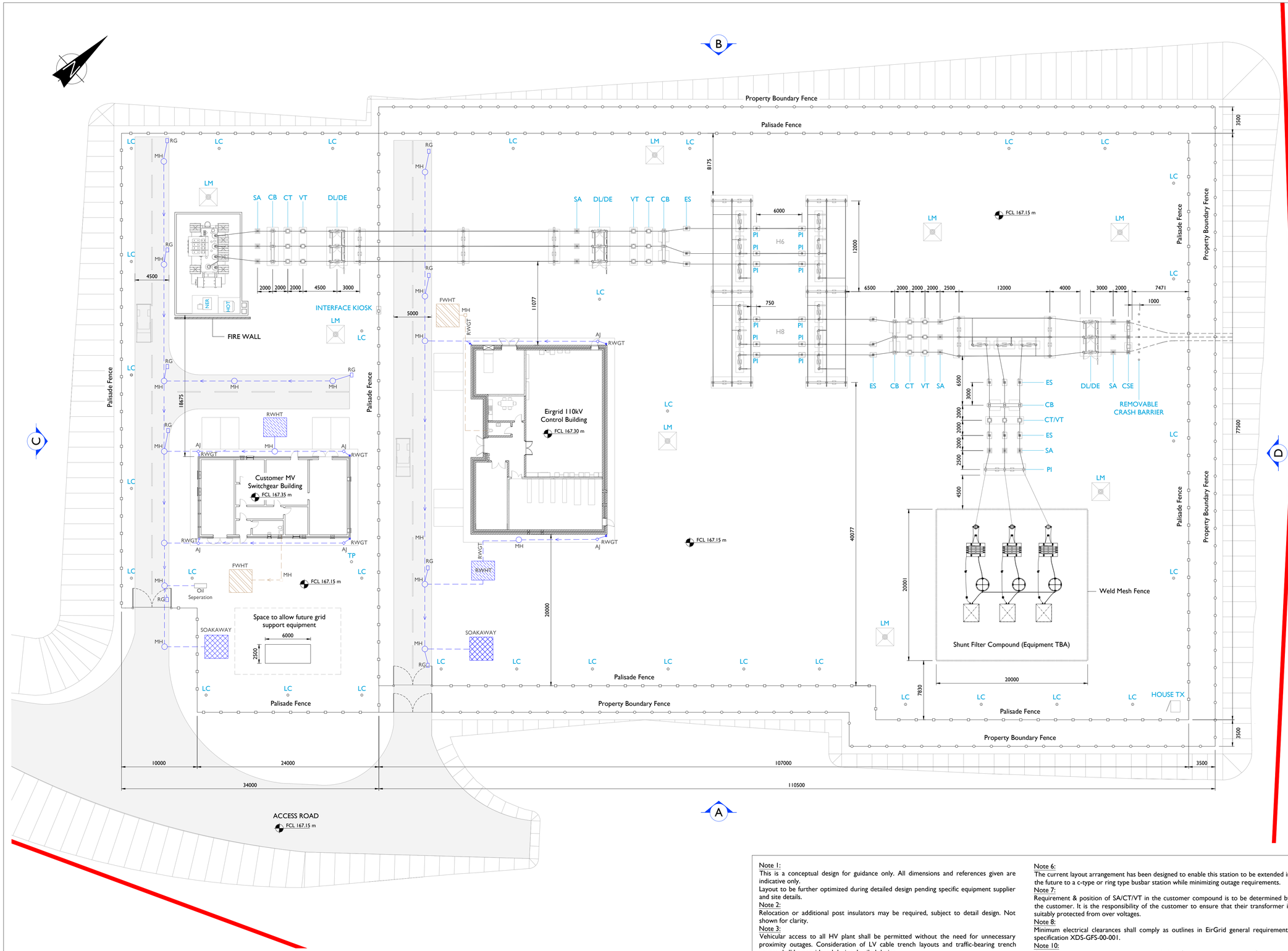
ISO A1 594mm x 841mm



SUBSTATION LAYOUT PLAN

Scale : 1:250

1:250
5m 0 5m 10m 15m 20m 25m

Note 1:
This is a conceptual design for guidance only. All dimensions and references given are indicative only.
Layout to be further optimized during detailed design pending specific equipment supplier and site details.

Note 2:
Relocation or additional post insulators may be required, subject to detail design. Not shown for clarity.

Note 3:
Vehicular access to all HV plant shall be permitted without the need for unnecessary proximity outages. Consideration of LV cable trench layouts and traffic-bearing trench covers shall be considered during detailed design.

Note 4:
Lightning mast, LV trench duct routes, marshalling/interface cabinets and lighting fixtures shall be considered during detailed design.

Note 5:
Refer to the auxiliary supply functional specification XDS-GFS-08-001 for LV power supply requirements. The secondary mains LV supply is to be provided from the local MV distribution network. This can be via a pole mounted transformer located outside the palisade fence or via a ground mounted transformer in a kiosk located inside the palisade fence. The precise location of the pole mounted transformer and the ground mounted transformer, as the case may be, are site specific and will be by agreement with EirGrid.

Note 6:
The current layout arrangement has been designed to enable this station to be extended in the future to a c-type or ring type busbar station while minimizing outage requirements.

Note 7:
Requirement & position of SA/CT/VT in the customer compound is to be determined by the customer. It is the responsibility of the customer to ensure that their transformer is suitably protected from over voltages.

Note 8:
Minimum electrical clearances shall comply as outlines in EirGrid general requirements specification XDS-GFS-00-001.

Note 10:
A detailed arrangement shall consider proximity of the property boundary fence to the palisade fence, ensuring that it cannot be used as a climbing aid to scale the palisade fence. Arrangement shall be site specific and shall be agreed with EirGrid during the detailed design phase.

Note 12:
The customer should allow space for a future transformer connection in the area adjacent to the customer compound and transmission station.

Note 13:
PI foundations positioned adjacent to the VTS should be designed such that, upon future development of the station, the may be utilised as foundations for CTS.

Project Management Initials: Designer: LP Checked: ST Approved: GH

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PROJECT

Scart Mountain WF

110 kV Grid Connection

CLIENT

Ireland FutureEnergy

CONSULTANTS

TOBIN CONSULTING ENGINEERS

NOTES: -

- See General Notes

LEGEND: -

Planning Red Line Boundary shown thus

Surface water drainage shown thus

Foul water drainage shown thus

Final Compound Level FCL 167.15m

	Description
CSE	Cable Sealing End
SA	Surge Arrester
DL/DE	Line / Earth Disconnect
VT	Voltage Transformer
CT	Current Transformer
CB	Circuit Breaker
LM	Lightning Mast
LC	Lighting Column
TC	Telecom Post
ES	Earth Switch

ISSUE/REVISION

P3	09.12.24	Issued for Planning
P2	25.11.24	Issued for Planning
P1	15.02.24	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-854

SHEET TITLE

Substation Layout Plan

SHEET NUMBER

05854-DR-230