

510
B

Map Series:
Prime Data Vector

ITM Centre Point Co-ordinate:
X,Y = 603171.5483, 699974.5702

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PROJECT

Ballincor Wind Farm 110kV Substation

CLIENT

RWE

CONSULTANTS

TOBIN CONSULTING ENGINEERS

NOTES:-

- This drawing is to be used only for the purpose of the planning application and is subject to detailed design.

LEGEND:-

- Proposed 110kV UGC Route (12.2km) shown thus
- Propose Access Track in Private Land shown thus
- Surface Water Drainage shown thus
- Foul Water Drainage shown thus
- Finished Compound Level shown thus
- Finished Floor Level shown thus
- Soakaway shown thus
- Foul Water Holding Tank shown thus
- Rain Water Harvesting Tank shown thus
- Manhole shown thus
- Oil Separation shown thus
- Downpipe shown thus
- Gully shown thus
- Access Junction shown thus

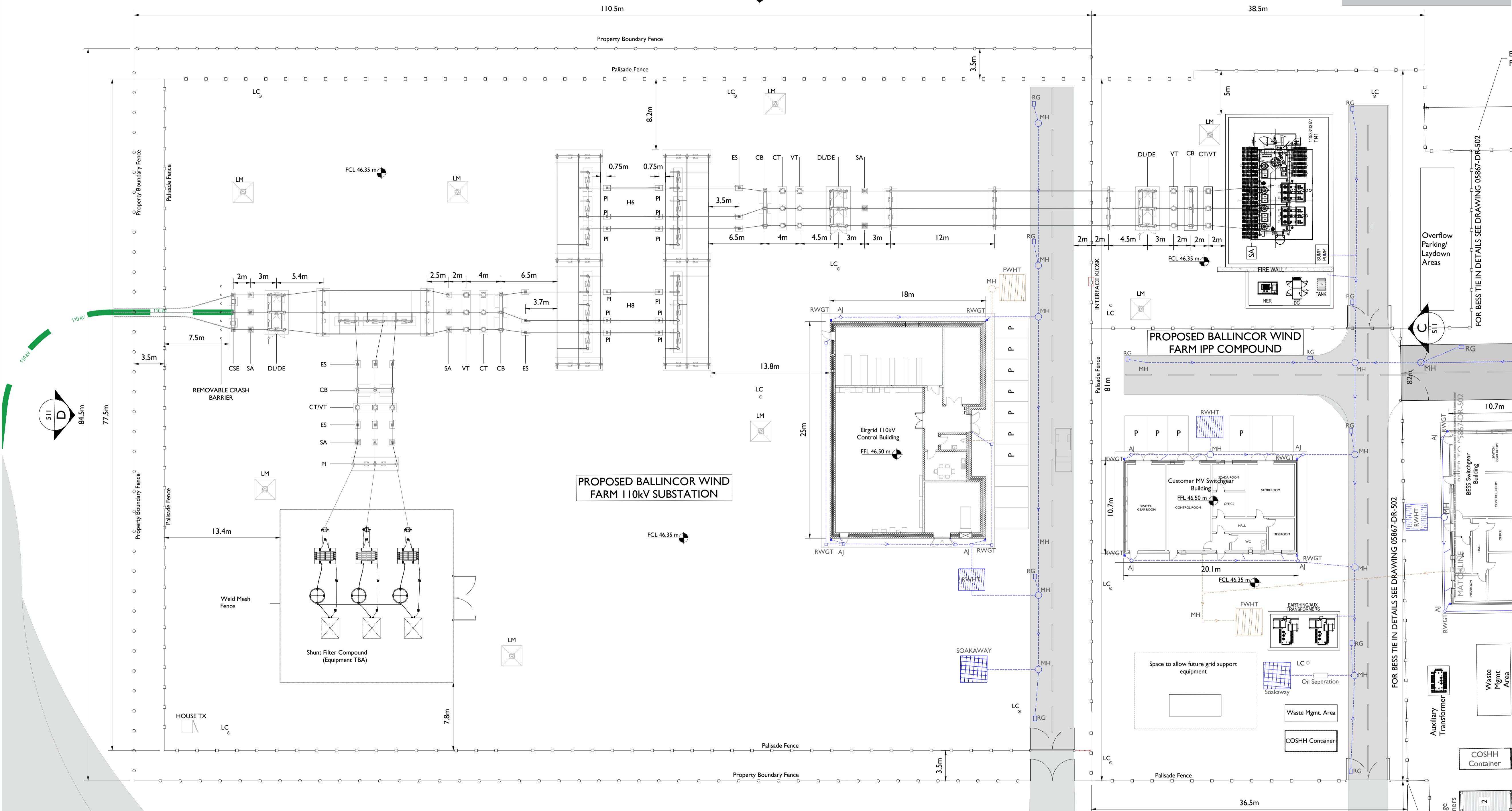
ISSUE/REVISION

NO	DATE	DESCRIPTION
P6	13.11.25	Issued for Planning
P5	07.11.25	Issued for Construction
N1	22.10.25	Issued for Information
P4	13.08.25	Issued for Planning
P3	06.08.25	Issued for Planning
P2	10.07.25	Issued for Planning
P1	21.02.25	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-867

SHEET TITLE
Substation Compound Layout Plan

SHEET NUMBER
05867-DR-501



SUBSTATION COMPOUND LAYOUT PLAN
Scale: 1:250

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 trenching 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:
Requirements & 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.

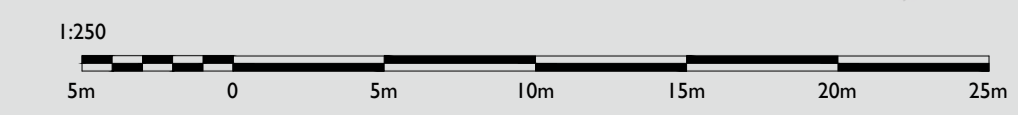
Note 8:
Minimum electrical clearances shall comply as outlined in EirGrid general requirements specification XDS-GFS-00-001. EirGrid Substation layout as per EirGrid drawing number XDN-LAY-ELV-STND-H-013, sheet 1, Revision 2

Note 9:
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 10:
The customer should allow space for a future transformer connection in the area adjacent to the customer compound and transmission station.

Note 11:
PI foundations positioned adjacent to the VTS should be designed such that, upon future development of the station, they may be utilized as foundations for CTS.

Equipment	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
ES	Earth Switch



Project Management: Initials: Designer: BM Checked: NOC Approved: GH