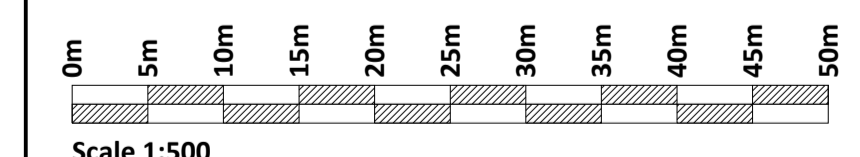


| Legend | |
|---------|------------------------------------|
| LM | LIGHTING MAST |
| SA | SURGE ARRESTER |
| VT | VOLTAGE TRANSFORMER |
| CT | CURRENT TRANSFORMER, SINGLE PHASE |
| PI | POST INSULATOR |
| LT | LINE TRAP (TYPICALLY R & T PHASES) |
| DL/DE | LINE/EARTH DISCONNECT |
| DT/DEM4 | TRAFIO/EARTH DISCONNECT |
| CB | CIRCUIT BRAKER |
| DA | BUSBAR DISCONNECT |
| DB | BUSBAR DISCONNECT |
| SA1/SA2 | SECTIONALISER DISCONNECT |
| SB1/SB2 | SECTIONALISER DISCONNECT |

New Loop Station

- Note 1:
This is a conceptual design for guidance only. All dimensions and references given are indicative only. Layout to be further optimised during detail design pending specific equipment supplier and site details.
- Note 2:
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-able 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 detail design.
- Note 5 (as illustrated on drawing):
The low level T & S phase bay conductors are arranged closer together to avoid unnecessary proximity outages on adjacent bays. To be repeated for all bays.
- Note 6 (as illustrated on drawing):
Independent supported span on low level bay conductors between DA and DB. The connection at the PI should be able to be broken to allow the link between DA and DB to be disconnected.
- Note 7 (as illustrated on drawing):
Distance between CT and CB on wing coupler to be a minimum of 6500mm from the busbar side of the open disconnect. Distance between disconnect and adjacent low level bat conductor to be a minimum of 6500mm.
- Note 8 (as illustrated on drawing):
6500mm distance required between busbar and CB on each bay.
- Note 9 (as illustrated on drawing):
Diesel generator and station rural feeding arrangement shall be in line with Eirgrid station auxiliary power supplies specification.



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| Rev. | Description | App By | Date |
|------|-------------------|--------|----------|
| A | ISSUE FOR COMMENT | JH | 31.10.19 |
| | | | |
| | | | |
| | | | |

| PROJECT | CLIENT | | |
|-------------------------------|--|----------|--------------------------|
| COOM GREEN ENERGY PARK | CROOM GREEN ENERGY PARK LIMITED | | |
| | Date | 31.10.19 | Project number |
| | Drawn by | CS | Drawing Number |
| | Checked by | TB | P20-099-0300-0004 |
| SHEET | PROPOSED SUBSTATION COMPOUND AT LACKENDARRAGH | | Scale (@ A1-) 1:500 |
| | | | Rev A |

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08 December 2020