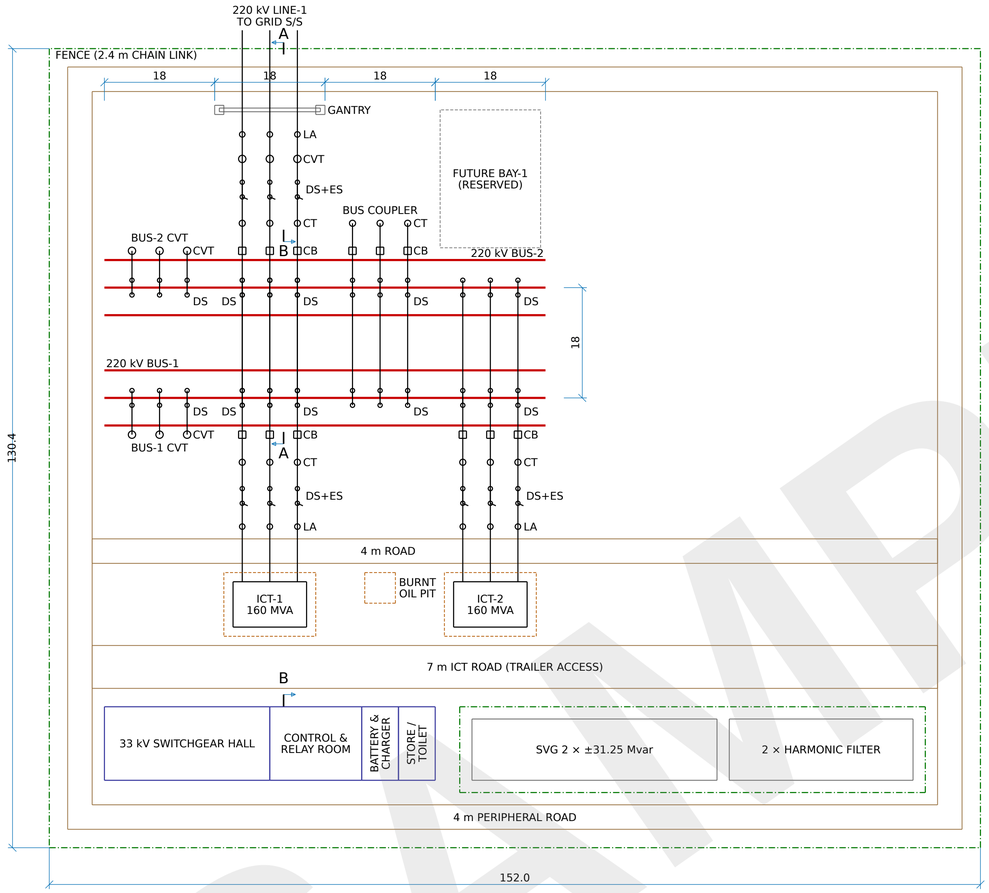
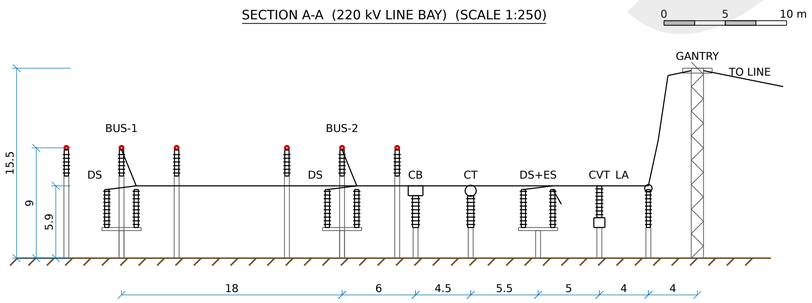
LAYOUT PLAN (SCALE 1:500)

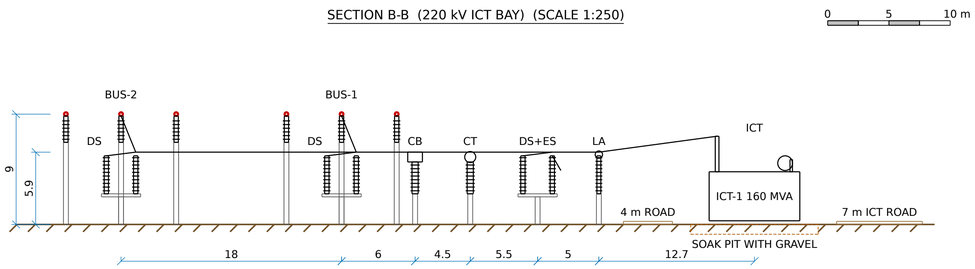


SECTION A-A (220 kV LINE BAY) (SCALE 1:250)



LIVE PARTS AT ≥ 5.90 m. MIN. GROUND CLEARANCE 5.50 m, SECTIONAL 5.00 m.

SECTION B-B (220 kV ICT BAY) (SCALE 1:250)



LIVE PARTS AT ≥ 5.90 m. MIN. GROUND CLEARANCE 5.50 m, SECTIONAL 5.00 m.

NOTES

1. Dimensions in metres. Heights above finished ground level.
2. 220 kV clearances (CBIP / CEA): phase-to-earth 2.10 m, between phases 2.10 m, sectional 5.00 m, ground 5.50 m. Altitude 500 m: no correction (up to 1000 m).
3. Tubular Al main bus at 9.00 m on post insulators. Equipment level 5.90 m, line gantry 15.50 m. HCB isolators.
4. ICT footprint 12.00 m × 7.40 m (indicative). Soak pit 1.50 m beyond the tank. Firewall where the gap is less than 10.00 m.
5. Equipment footprints are indicative. Finalise with vendor GA drawings.
6. Earth mat: drawing SSL-E-EAR-001. Lightning protection: drawing SSL-E-DSL-001. Cable trenches are not covered by this drawing set.

YARD SUMMARY

Fenced area 152.00 m × 130.40 m = 1.98 ha (4.90 acres).
220 kV double main bus: 1 line, 2 ICT, bus coupler, 2 bus CVTs, 1 future. 4 columns of 18.00 m.
Building 54.00 m × 12.00 m.

CLEARANCE CHECKS

HV phase spacing ≥ ph-ph: 4.50 m · limit 2.10 m · Pass
HV outer phase to bay edge ≥ ph-E: 4.50 m · limit 2.10 m · Pass
HV equipment level ≥ ground clearance: 5.90 m · limit 5.50 m · Pass
HV bus above equipment ≥ ph-ph: 3.10 m · limit 2.10 m · Pass
HV gap between buses ≥ sectional: 9.00 m · limit 5.00 m · Pass
33 kV phase spacing ≥ ph-ph: 1.50 m · limit 0.32 m · Pass
33 kV equipment level ≥ ground clearance: 4.00 m · limit 3.70 m · Pass

SubstationLayout

REV	DATE	DESCRIPTION	BY
0	2 Nov 2026	Issued	Sample engineer

PROJECT	Sample 220/33 kV pooling substation
CLIENT	Sample client
LOCATION	Sample site
TITLE	220 kV SWITCHYARD PLAN AND SECTIONS 220/33 kV POOLING SUBSTATION, 250 MW

	NAME	DATE
DRAWN	Sample engineer	2 Nov 2026
CHECKED	Sample engineer	2 Nov 2026
APPROVED	Sample engineer	2 Nov 2026

DRG. NO.	SSL-E-LAY-001	REV.	0
SCALE	1:500 / 1:250	SIZE A1	Sheet 1 of 1

SAMPLE

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