



NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.
2. EIRGRID COMPOUND SHOWN IN ORANGE ARE BASED ON EIRGRID STANDARD FOR 110 KV C-TYPE 8-BAY AIS SUBSTATION (DRAWING NUMBER XDN-LAY-ELEV-STND-H-001-R08).
3. EQUIPMENT SHOWN IN RED ARE TO BE CONSTRUCTED IN FUTURE PHASES.
4. INDICATIVE LAYOUT ONLY. FURTHER DETAILS SUCH AS LV CABLE TRENCHES INTERFACE CABINETS AND LIGHTING ETC. TO BE ADDED AT DETAILED DESIGN STAGE.
5. LIGHTNING MAST & LIGHTING POSTS LOCATIONS SUBJECT TO CHANGE WITHIN COMPOUND.
6. ACCESS ROADS TO BE 250mm DEEP CONCRETE ON WELL COMPACTED STONE FILL.
7. COMPOUND STONE FILL TO BE 150mm DEEP LAYER OF 50mm SINGLE SIZED CRUSHED LIMESTONE. EXTENT OF CRUSHED ROCK TBC AT DETAILED DESIGN STAGE.
8. ALL HV EQUIPMENT TO BE POSITIONED ON CONCRETE PLINTHS.

LEGEND	
SA	SURGE ARRESTER
CSE	CABLE SEALING END
CT/VT	COMBINED CURRENT TRANSFORMER/ VOLTAGE TRANSFORMER
PI	POST INSULATOR
	PALISADE FENCE
	PROPERTY BOUNDARY FENCE
NER	NEUTRAL EARTHING RESISTOR
HOT	HOUSE TRANSFORMER
D/DE	LINE-EARTH DISCONNECTOR
DT/DEM4	TRANSFORMER-EARTH DISCONNECTOR
CB	CIRCUIT BREAKER
LM	LIGHTNING MAST
LP	LIGHT POLE
LCC	LOCAL CONTROL CABINET
C2	COMMS CHAMBER
VT	VOLTAGE TRANSFORMER
CT	CURRENT TRANSFORMER
	SAND PIT
	110 kV GRID LINE

Rev	Date	Description	CHK	APP
01	21/07/2023	ADDITIONAL DIMS ADDED. COMPOUND BOUNDARIES AND POWER TRANSFORMERS NAME TAGS UPDATED.	DM	ES
00	07/07/2023	FOR PLANNING	DM	ES

Revisions



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Project: MONVALLET HYBRID SOLAR & BESS 110 KV SUBSTATION

Title: PROPOSED COMPOUND LAYOUT

Date: 21/07/2023 Drawn: RBC Designed By: RBC Checked By: DM Approved By: ES

Scale: 1:300 @ A1 Project No: A10XX Project Status: -

Project Code: A10XX - HMV - XX - XX - DR - E - 0002

Status Code: - Suitability Description: - Revision: 01

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MINIMUM ELECTRICAL CLEARANCES (mm)	110 kV
PHASE TO PHASE	1100
PHASE TO EARTH	1100
MIN DISTANCE FROM LIVE PARTS TO SCREENS, WALLS ETC.	1200
HEIGHT OF BOTTOM OF UNSCREENED LIVE BUSHINGS ABOVE GROUND	2300
HEIGHT OF LIVE PARTS ABOVE PEDESTRIAN PASSAGEWAY	3400
HEIGHT OF LIVE PARTS ABOVE VEHICLE PASSAGEWAYS	8000
HEIGHT OF LINES ABOVE GROUND (EXCLUDING ROAD)	7000
HEIGHT OF COMPOUND FENCE	2600
HORIZONTAL DISTANCE BETWEEN LIVE PARTS AND COMPOUND FENCE	4500