

- NOTES**
1. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/PAPER COPY OF THIS PLAN
 2. NO BOUNDARY SURVEY HAS BEEN UNDERTAKEN. BOUNDARIES SHOWN ARE FROM KMZ FILE ONLY AND ARE SUBJECT TO CONFIRMATION BY BOUNDARY SURVEY
 3. THE SURVEY HAS BEEN CONDUCTED USING AERIAL IMAGING. ACCURACY IS +/-50mm VERTICAL IN OPEN, HARD FLAT AREAS AND +/-150mm ON GROUND FEATURES IN OPEN, HARD FLAT AREAS.
 4. SERVICES SHOWN ARE INDICATIVE ONLY. POSITIONS ARE BASED ON SURFACE INDICATOR(S) LOCATED DURING FIELD SURVEY. CONFIRMATION OF THE EXACT POSITION SHOULD BE MADE TO THE RELEVANT AUTHORITIES PRIOR TO ANY EXCAVATION WORK. OTHER SERVICES MAY EXIST WHICH ARE NOT SHOWN.
 5. BUILDINGS HAVE BEEN PLOTTED FOR DIAGRAMMATIC PURPOSES ONLY.
 6. MAPPING SYSTEM IS MGA/20CD-55 (ZONE 55, MGA 2020)
 7. THE FIRE HYDRANT SYSTEM TO BE CONFIRMED WITH THE PROGRESS OF THE DESIGN
 8. THE ROAD DESIGN TO BE CONFIRMED WITH THE PROGRESS OF THE DESIGN
 8. REFER TO DRAWING EHV-MBESS-EL-DR-0102 FOR DETAILS.

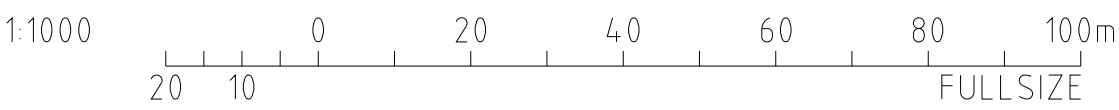
- LEGEND**
- BESS - BATTERY ENERGY STORAGE SYSTEM CONTAINERS
 - PCS - INVERTER AND MV TRFR
 - PH - PUMP HOUSE
 - O&M - OPERATION AND MAINTENANCE FACILITY
 - LP - LIGHT POLE & FLOOD LIGHTS
 - HY - FIRE HYDRANT
 - AUX TRFR - AUXILIARY TRANSFORMER
 - ST - SEPTIC TANK

- EQUIPMENT COLORS**
- BUILDINGS: SURFMIST OR WOODLAND GREY
 - SOUNDWALLS: SURFMIST OR WOODLAND GREY
 - CHAINWIRE FENCE: GALVANIZED SILVER/GREY
 - WATERTANK: SURFMIST OR WOODLAND GREY

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ADVERTISED PLAN

PRELIMINARY ISSUE



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A				G.L.S.				K.R.G.			
No				DRAWN				CHKD			
				DESCRIPTION				DATE			
				REVISIONS				REFERENCES			

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DRAWING TITLE
MACEDON BESS 188.6MW (501MWh)
AND 66/33kV COLLECTOR STATION
PROPOSED SITE LAYOUT

DESIGN	G.L.SMITH	DRAWN	G.L.SMITH	DATE	27/10/2025
A1 SCALE	1:1000	CAD FILE	EHV-MBESS-EL-DR-0109	FOLDER	MBESS
DRAWING NUMBER	EHV-MBESS-EL-DR-0109	SHEET NUMBER	1	OF	1
		REV			B

Path: C:\Users\Dominic.Borrelli\Aurecon Group\SAVI Spatial - Documents\Project Work\U302_D20225_Macedon_BESS\aprx

Author: Dominic.Borrelli



aurecon



Legend

- ✗ Impacted Native Tree
- Retained Native Tree
- TPZ
- Impacted Native Vegetation
- Retained Native Vegetation
- Study Area
- Property
- Local Government Area
- Development Footprint

ADVERTISED PLAN

Basemap: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

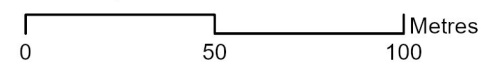
Data source: Aurecon (2025), DELWP (2025)

Date: 2/06/2026

Version: 1



A3 scale: 1:2,000



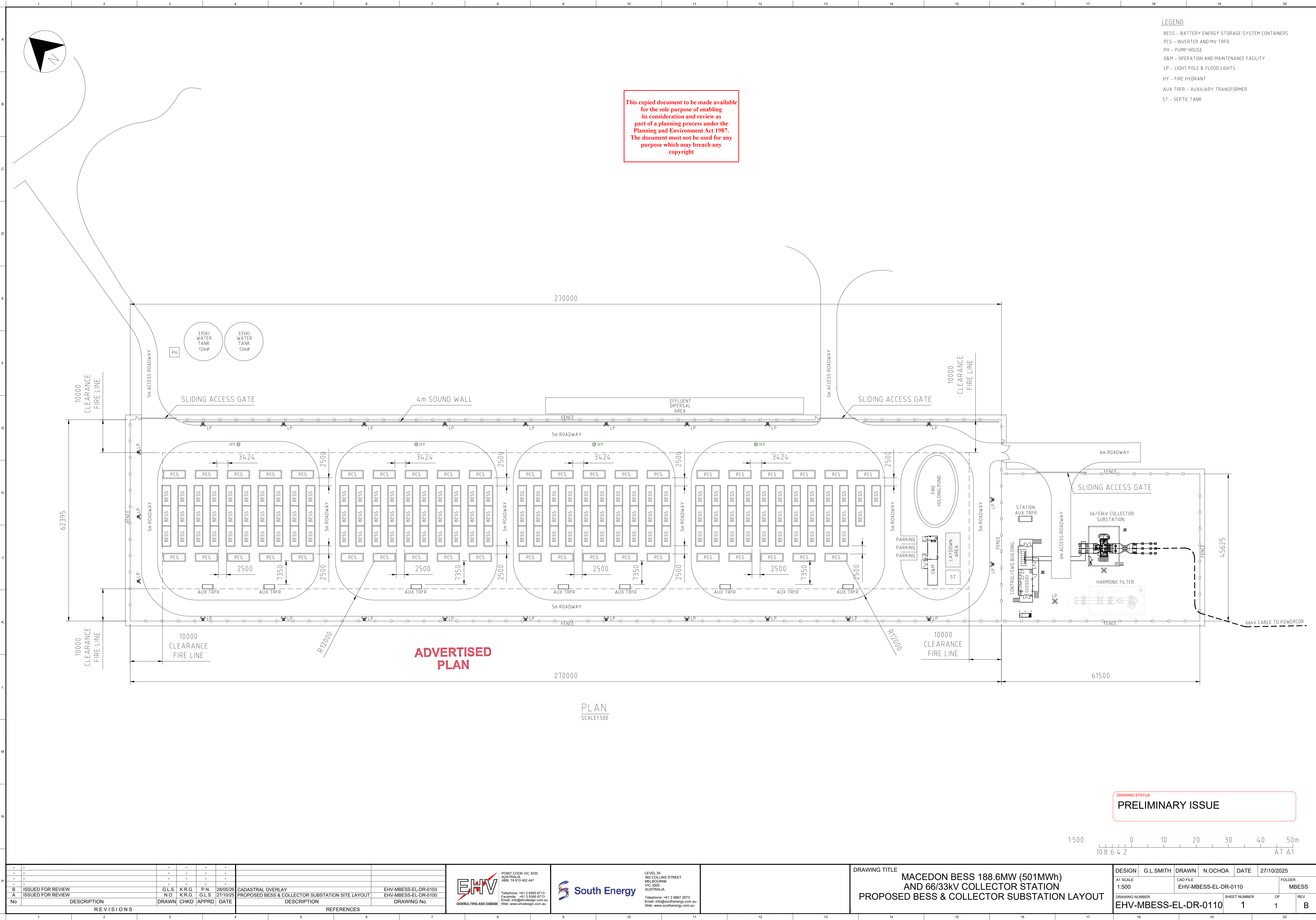
Job No: P527802

Coordinate System: GDA2020 MGA Zone 55

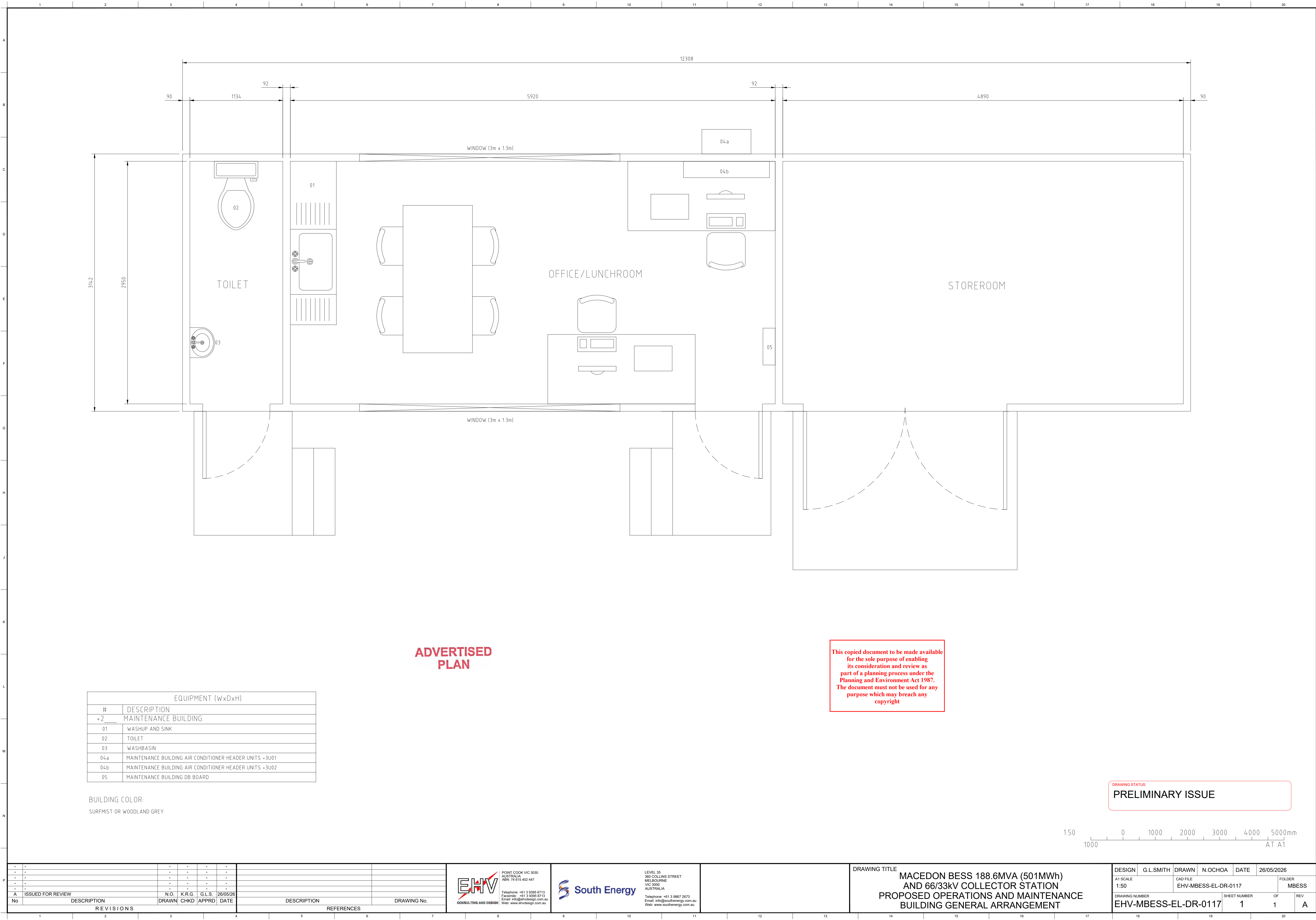
Macedon BESS

Impacted and Retained Native Vegetation

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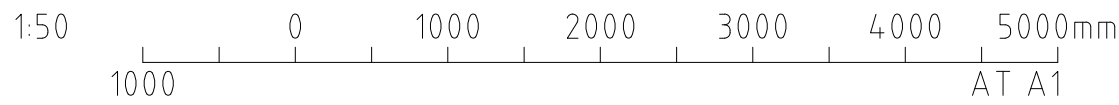
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EQUIPMENT (WxDxH)				
#	DESCRIPTION			
+2	MAINTENANCE BUILDING			
01	WASHUP AND SINK			
02	TOILET			
03	WASHBASIN			
04a	MAINTENANCE BUILDING AIR CONDITIONER HEADER UNITS +3U01			
04b	MAINTENANCE BUILDING AIR CONDITIONER HEADER UNITS +3U02			
05	MAINTENANCE BUILDING DB BOARD			

BUILDING COLOR:
SURFMIST OR WOODLAND GREY

DRAWING STATUS
PRELIMINARY ISSUE



REVISIONS		REFERENCES			
No	DESCRIPTION	N.O.	K.R.G.	G.L.S.	DATE
A	ISSUED FOR REVIEW				28/05/26

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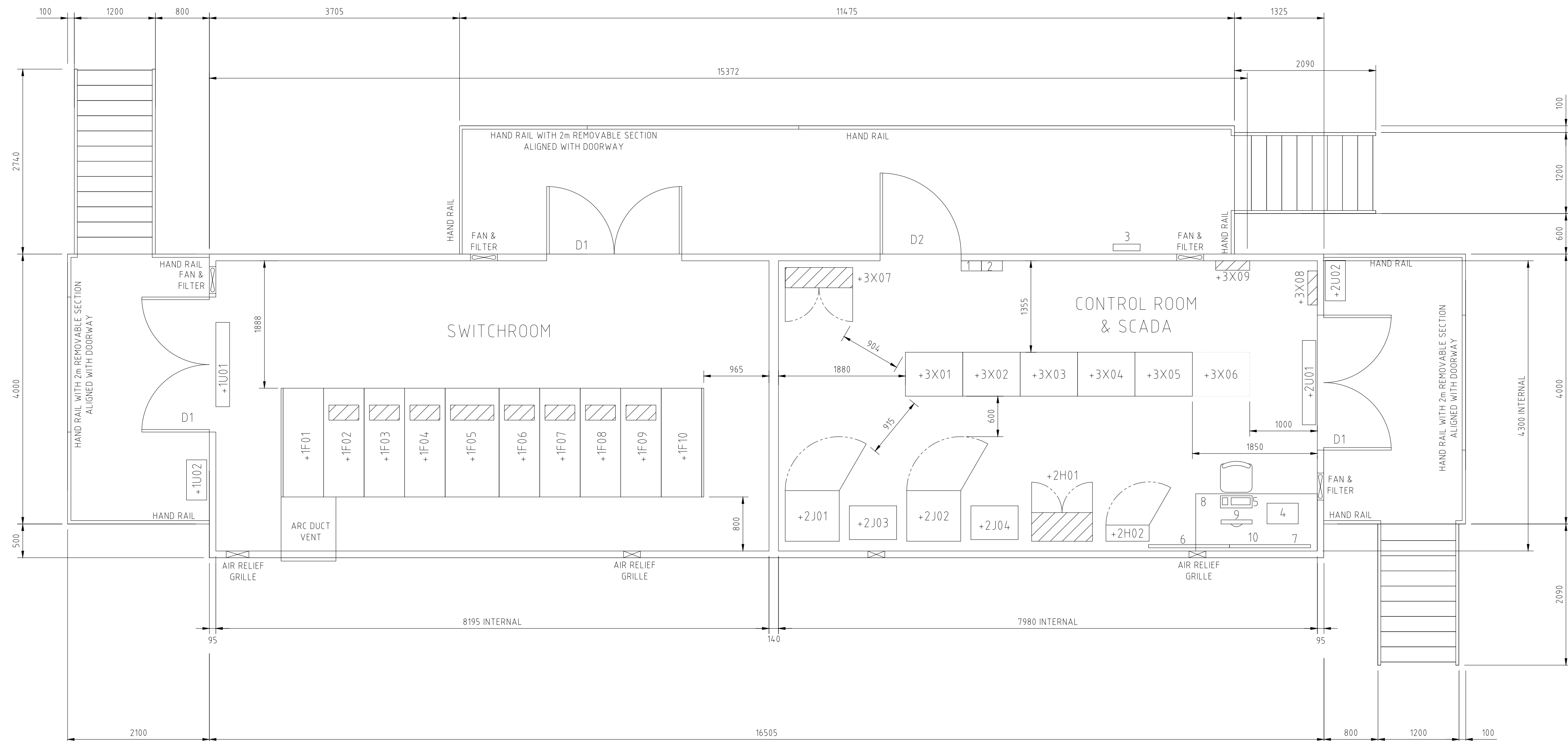
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DRAWING TITLE

MACEDON BESS 188.6MVA (501MWh)
AND 66/33kV COLLECTOR STATION
PROPOSED OPERATIONS AND MAINTENANCE
BUILDING GENERAL ARRANGEMENT

DESIGN	G.L.SMITH	DRAWN	N.OCHOA	DATE	28/05/2026
A1 SCALE	CAD FILE		FOLDER		
1:50	EHV-MBESS-EL-DR-0117		MBESS		
DRAWING NUMBER	SHEET NUMBER		OF	REV	
EHV-MBESS-EL-DR-0117	1		1	A	



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CONTROL PANELS AND EQUIPMENT (WxDxH)									
#	DESCRIPTION	WEIGHT	#	DESCRIPTION	WEIGHT	#	DESCRIPTION	WEIGHT	
+1	SWITCH ROOM		+2	AC/DC ROOM			GENERAL EQUIPMENT		
+1F01	33kV EARTH SWITCH (600x1612x2500)	750KG	+2H01	400/230V AC DISTRIBUTION BOARD (800x400x2175)	500KG	1	FIRE DETECTION SYSTEM	N/A	
+1F02	33kV BESS FEEDER #1 (600x1612x2500)	750KG	+2H02	125VDC/230VAC INVERTER UPS PANEL (800x400x2200)	300KG	2	SECURITY SYSTEM	N/A	
+1F03	33kV BESS FEEDER #2 (600x1612x2500)	750KG	+2J01	125VDC 'X' BATTERY CHARGER (800x800x2150) + DISTRIBUTION BOARD	300KG	3	GPS ANTENNA	N/A	
+1F04	33kV INCOMER CB (800x1612x2500)	750KG	+2J02	125VDC 'Y' BATTERY CHARGER (800x800x2150) + DISTRIBUTION BOARD	300KG	4	PRINTER	N/A	
+1F05	33kV BESS FEEDER #3 (600x1612x2500)	750KG	+2J03	125VDC 'X' BATTERY BANK (800x500x2150)	100KG	5	SUBSTATION SCADA HMI	N/A	
+1F06	33kV BESS FEEDER #4 (600x1612x2500)	950KG	+2J04	125VDC 'Y' BATTERY BANK (800x500x2150)	100KG	6	WHITEBOARD	N/A	
+1F07	33kV BESS FEEDER #5 (600x1612x2500)	950KG	+2U01	AC/DC ROOM AIR CONDITIONER HEADER UNIT	30KG	7	PIN BOARD	N/A	
+1F08	33kV BESS FEEDER #6 (600x1612x2500)	950KG	+2U02	AC/DC ROOM AIR CONDITIONER CONDENSER UNIT	80KG	8	DESK	N/A	
+1F09	33kV BESS FEEDER #7 (600x1612x2500)	950KG	+3	CONTROL ROOM		9	SCADA HMI	N/A	
+1F10	33kV VOLTAGE TRANSFORMER (600x1612x2500)	750KG	+3X01	66kV FEEDER PROTECTION PANEL (850x600x2250)	250KG	10	SCADA DESK POWER & DATA OUTLET	N/A	
			+3X02	No.1 TRANSFORMER X PROTECTION PANEL (850x600x2250)	250KG				
			+3X03	No.1 TRANSFORMER Y PROTECTION PANEL (850x600x2250)	250KG	D	DOOR SCHEDULE		
			+3X04	REACTIVE PLANT PROTECTION PANEL (850x600x2250)	250KG	D1	2 x 2700 x 1000 (DOUBLE DOOR)	N/A	
			+3X05	SUBSTATION RTU PANEL (850x600x2250)	250KG	D2	1 x 2700 x 1200 (SINGLE DOOR)	N/A	
			+3X06	FUTURE PANEL (850x600x2250)	-				
			+3X07	CTC PANEL (1200x350x2100)	180KG				
			+3X08	FIBRE TERMINATION BOX (505x140x350)	10KG				
			+3X09	FIBRE TERMINATION BOX (505x140x350)	10KG				

NOTES:

1. CABLE TRAYS TO RUN INSIDE BUILDING BETWEEN SWITCHROOM AND CONTROL ROOM. PENETRATION SHALL BE APPROPRIATELY SEALED USING FIRE PILLOWS.
2. ALL DOORS SHALL BE FITTED WITH PANIC BARS.
3. SWITCHGEAR SIZE BASED ON TAMCO 33kV GIS SWITCHGEAR.
4. STAIRS AND HANDRAILS SHALL BE SUPPLIED WITH THE BUILDING
5. FOR EARTHING REQUIREMENTS, REFER TO BUILDING SPECIFICATION

LEGEND:

FLOOR PENETRATION 

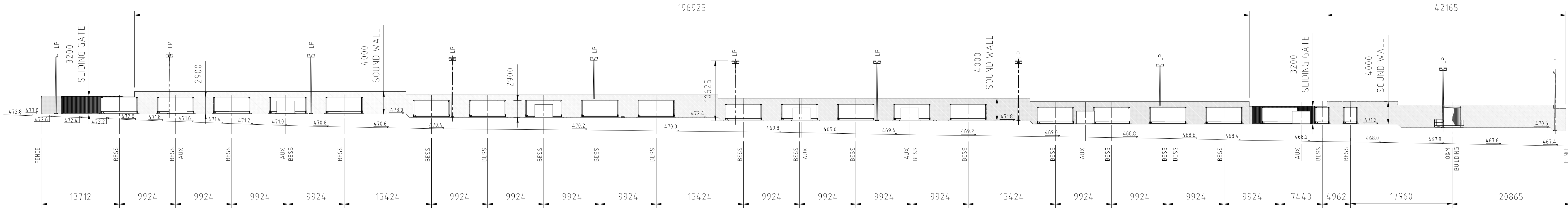
BUILDING COLOR:
SURFMIST OR WOODLAND GREY

[illegible]

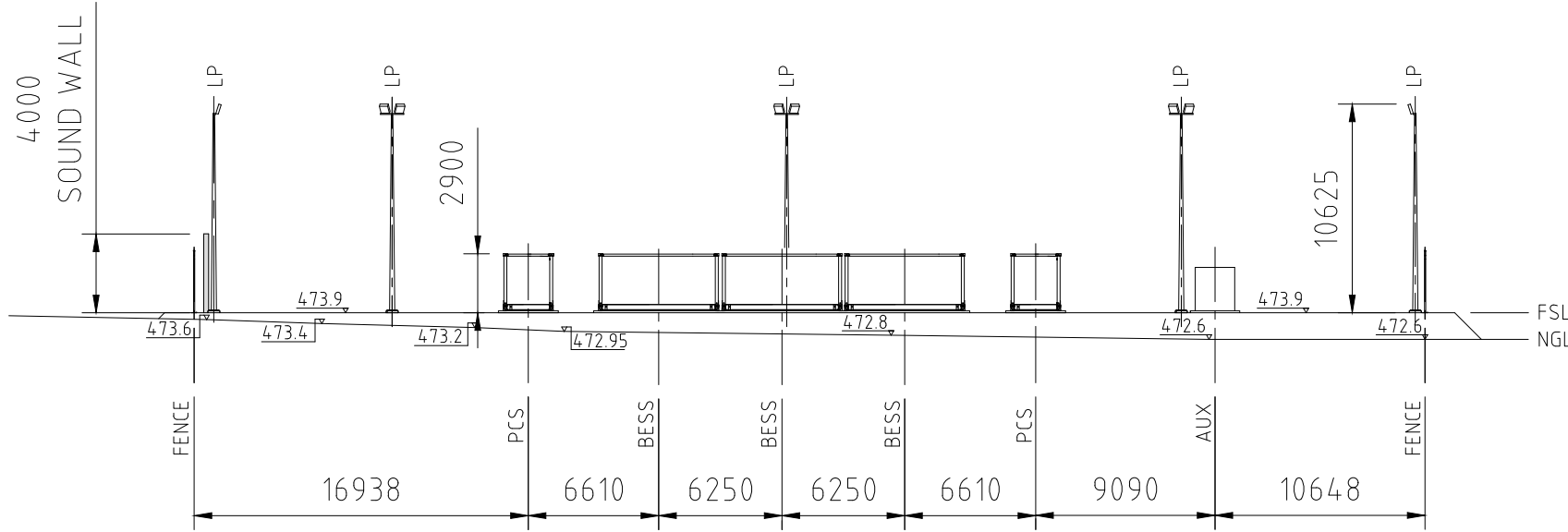
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- LEGEND:
- BESS - BATTERY ENERGY STORAGE SYSTEM CONTAINERS
 - PCS - INVERTER AND MV TRFR
 - PH - PUMP HOUSE
 - O&M - OPERATION AND MAINTENANCE FACILITY
 - AUX - BESS AUXILIARY TRANSFORMER
 - FSL - FINISHED SURFACE LEVEL
 - NGL - NATURAL GROUND LEVEL



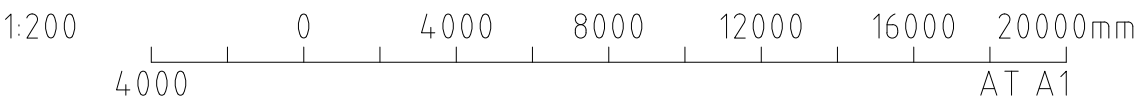
NORTH ELEVATION



EAST ELEVATION

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DRAWING STATUS
PRELIMINARY ISSUE



REVISIONS				REFERENCES			
No	DESCRIPTION	DRAWN	CHKD	APPRD	DATE	DESCRIPTION	DRAWING No.
C	ISSUED FOR REVIEW	G.L.S.	P.N.	K.R.G.	27/05/26	CADASTRAL OVERLAY	EHV-MBESS-EL-DR-0103
B	ISSUED FOR REVIEW	G.L.S.	P.N.	K.R.G.	04/12/25		EHV-MBESS-EL-DR-0100
A	ISSUED FOR REVIEW	N.O.	K.R.G.	G.L.S.	27/10/25	PROPOSED BESS & COLLECTOR SUBSTATION SITE LAYOUT	



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DRAWING TITLE
MACEDON BESS 188.6MVA (501MWh)
AND 66/33kV COLLECTOR STATION
PROPOSED BESS ELEVATIONS

DESIGN	G.L.SMITH	DRAWN	N.OCHOA	DATE	27/10/2025
A1 SCALE	1:500	CAD FILE	EHV-MBESS-EL-DR-0111	FOLDER	MBESS
DRAWING NUMBER	EHV-MBESS-EL-DR-0111	SHEET NUMBER	1	OF	1
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66kV CLEARANCES

SECTION CLEARANCE (S) = 3135mm
GROUND CLEARANCE (G) = 2440mm
PHASE - PHASE (P-P) = 725mm
PHASE - EARTH (P-E) = 630mm

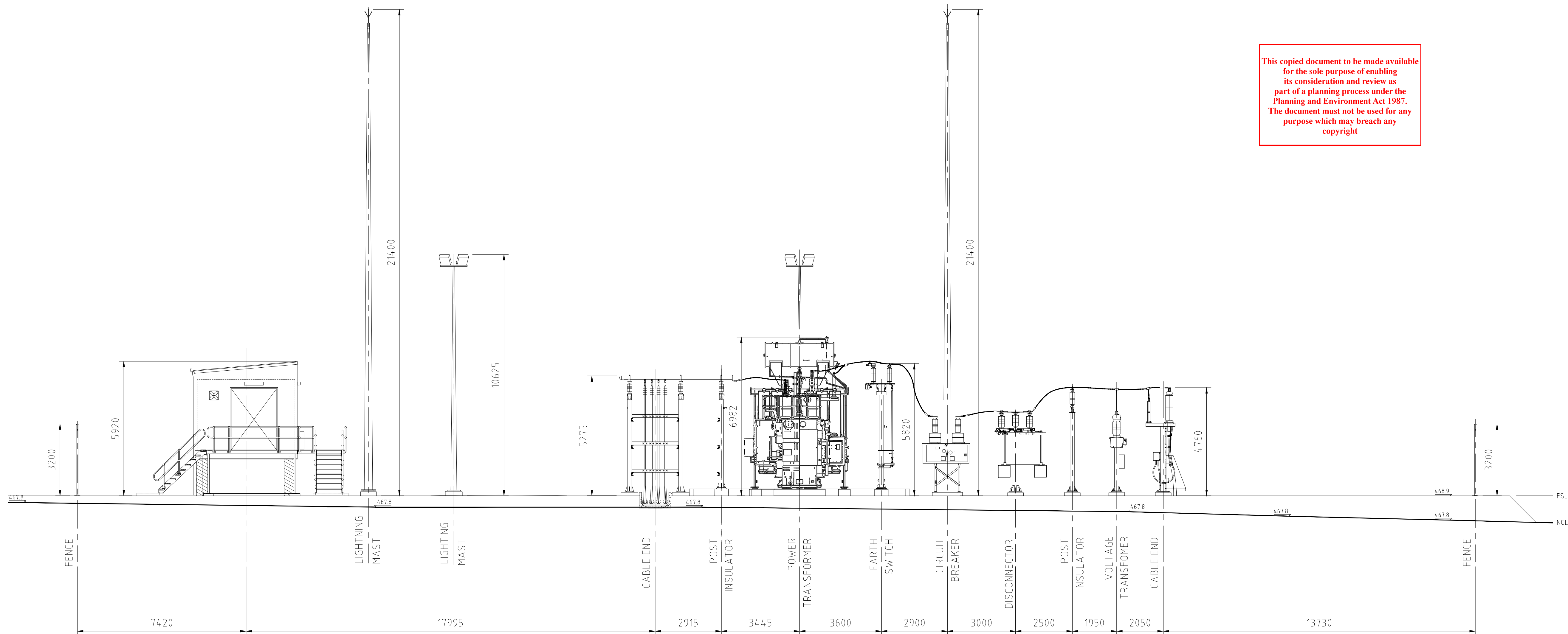
33kV CLEARANCES

SECTION CLEARANCE (S) = 2860mm
GROUND CLEARANCE (G) = 2440mm
PHASE - PHASE (P-P) = 440mm
PHASE - EARTH (P-E) = 380mm

LEGEND:

FSL - FINISHED SURFACE LEVEL
NGL - NATURAL GROUND LEVEL

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NORTH ELEVATION

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DRAWING TITLE
MACEDON BESS 188.6MVA (501MWh)
AND 66/33kV COLLECTOR STATION
PROPOSED ELEVATION

DESIGN	G.L.SMITH	DRAWN	N.OCHOA	DATE	27/11/2025
A1 SCALE 1:100	CAD FILE EHV-MBESS-EL-DR-0112	FOLDER MBESS			
DRAWING NUMBER EHV-MBESS-EL-DR-0112	SHEET NUMBER 1	OF 1	REV D		