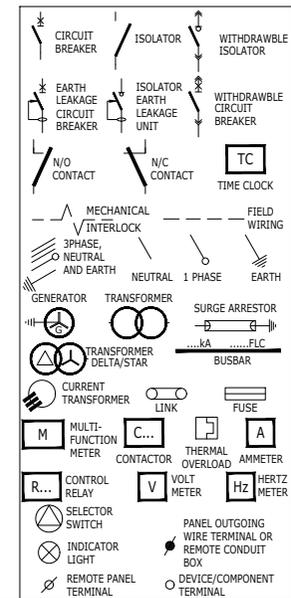


- NOTES**
- 1) DROPPERS/TAILS TO BE RATED FOR FULL P<sub>n</sub> LET THROUGH.
  - 2) HARNESSED WIRING TO BE DERATED.
  - 3) TUFFNOL BRACES ARE NOT TO BE USED ABOVE 10kA.
  - 4) COPPER BUSBARS TO BE CONTINUOUS RATED.
  - 5) ALL OUTGOING CIRCUIT BREAKERS TO BE FITTED WITH COPPER TAILS TO FACILITATE CABLE TERMINATIONS IN THE CABLE CHAMBER AND NOT ON THE CIRCUIT BREAKER.
  - 6) COPPER TAILS FROM DROPPER BUSBAR AND OUTGOING COPPER TAILS TO BE ADEQUATELY BRACED FOR FAULT LEVEL AND SHROUDED WITH HEAT SHRINK.
  - 7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
  - 8) ENCLOSURE TO BE IP54.
  - 9) PHASING RWB, TOP TO BOTTOM, LEFT TO RIGHT, BACK TO FRONT.
  - 10) INTERNAL TEMP TO BE LIMITED TO 5° ABOVE AMBIENT, MAX 40°C.
  - 11) ALL CIRCUITS TO BE LABELED.
  - 12) 25% SPARE SPACE. SPARE SPACES ARE TO BE FITTED WITH COPPER BUSBAR TAILS CONNECTED TO DROPPER BUSBARS TO ALLOW INSTALLATION OF CIRCUIT BREAKERS WITH A MINIMAL SHUTDOWN PERIOD.
  - 13) CHANGEOVER TO BE CONTROLLED BY STANDBY GENERATOR CONTROLLER.
- INCOMING CABLE** -TOP/BOTTOM  
**OUTGOING CIRCUITS** -TOP/BOTTOM  
**COLOUR** -NORMAL - WHITE  
 ESSENTIAL-RED  
 UPS-BLUE  
 -FLOOR STANDING  
**MOUNTING ACCESS** -FRONT  
**PROTECTIVE DEVICES** -SCHNEIDER  
 ACB's (1250A-4000A) -MASTERPACT NW  
 MCCB'S(800A - 1000A) -COMPACT NS  
 MCCB'S(60A-630A) -EASYPACT CSV  
 MCB'S -MULTI 9, TYPE 2  
**CONTACTORS** -AC3 HEAVY DUTY  
**METERS** -SCHNEIDER



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**TITLE**

**Ngwelezane Hospital**  
**Proposed New Orthotic & Prosthetics Centre**

**DRAWING TITLE:** DB-A/A-E/A-UPS  
 Single Line Diagram

**IBUYA** Consulting Engineers  
 "POWERING DEVELOPMENT"

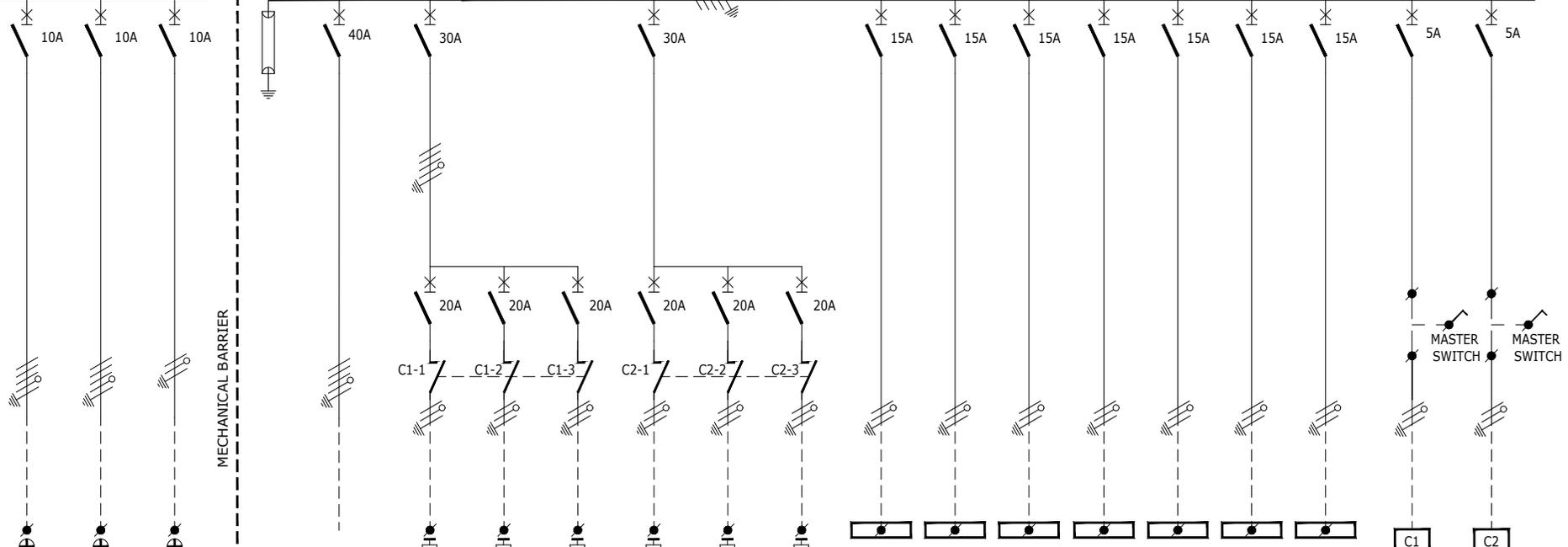
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FROM SHEET 1

60A BUSBAR, 5kA FAULT LEVEL

TO SHEET 3



MECHANICAL BARRIER

FIELD  
CIRCUIT No.  
PHASE

DESIGNATION

WIRING

LOAD (AMPS)  
No. OF POINTS  
CABLE No.

E11 RWB  
SCM AIRCON  
4mm<sup>2</sup> 4 CORE PVC SWA  
PVC ECC CABLE

E12 RWB  
DUST COLLECTOR  
4mm<sup>2</sup> 4 CORE PVC SWA  
PVC ECC CABLE

E13 RWB  
SPRAY BOOTH STATIONARY  
VACUUM PUMPS  
4mm<sup>2</sup> 4 CORE PVC SWA  
PVC ECC CABLE

FROM MAIN LV  
ESSENTIAL PANEL  
10mm<sup>2</sup> 4 CORE PVC SWA  
PVC ECC CABLE

3x2.5mm<sup>2</sup> Cu PVC  
INSULATED WIRE

LIGHTING LIGHTING

C1-1 C1-2 C1-3 C2-1 C2-2 C2-3 L7 L8 L9 L10 L11 L12 L13 C1 C2

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TITLE	Ngwelezane Hospital Proposed New Orthotic & Prosthetics Centre
DRAWING TITLE:	DB-A/A-E/A-UPS Single Line Diagram



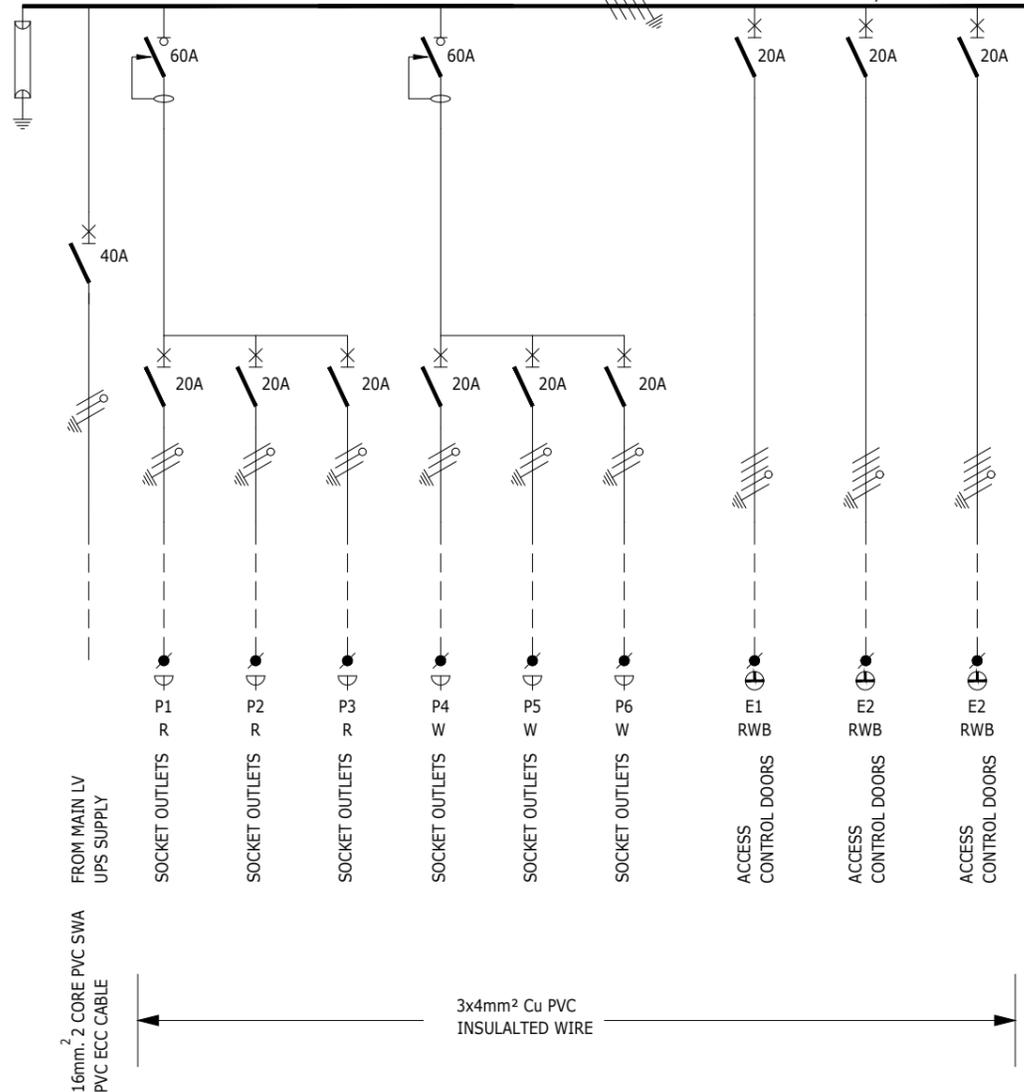
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FROM SHEET 2

40A BUSBAR, 5kA FAULT LEVEL

MECHANICAL BARRIER

FIELD CIRCUIT No.	PHASE	DESIGNATION	WIRING	LOAD (AMPS)	No. OF POINTS	CABLE No.
E1	RWB	FRESH AIR FAN No. 1	4mm <sup>2</sup> 4 CORE PVC SWA PVC ECC CABLE			
E2	RWB	FRESH AIR FAN No. 2	4mm <sup>2</sup> 4 CORE PVC SWA PVC ECC CABLE			
E3	RWB	FRESH AIR FAN No. 3	4mm <sup>2</sup> 4 CORE PVC SWA PVC ECC CABLE			



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TITLE	Ngwelezane Hospital Proposed New Orthotic & Prosthetics Centre
DRAWING TITLE:	DB-A/A-E/A-UPS
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