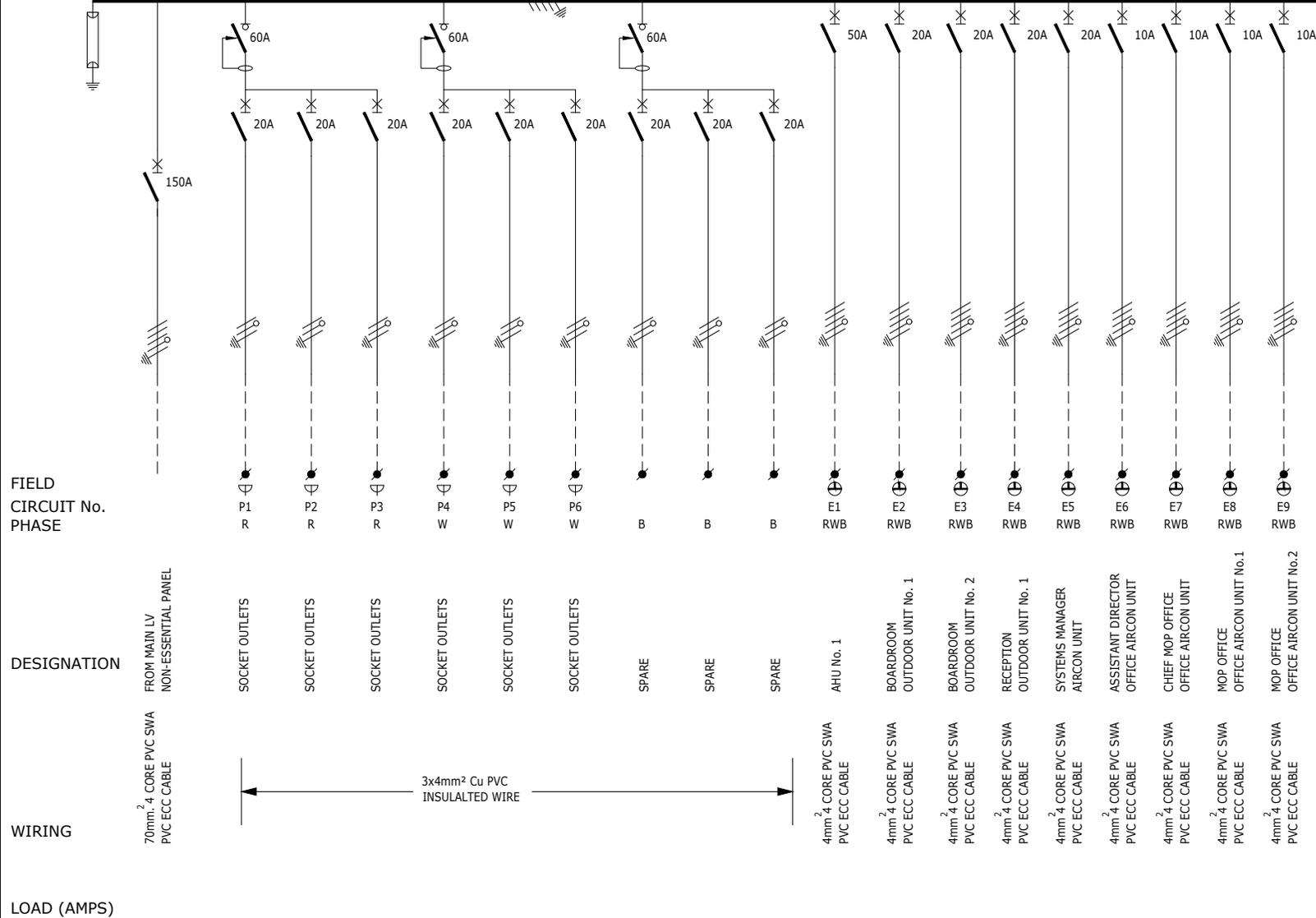


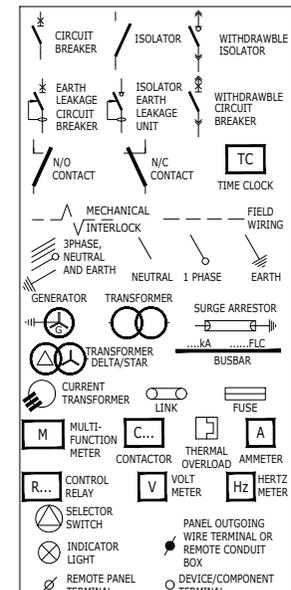
150A BUSBAR, 5kA FAULT LEVEL

TO SHEET 2



MECHANICAL BARRIER

- NOTES**
- 1) DROPPERS/TAILS TO BE RATED FOR FULL IN 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
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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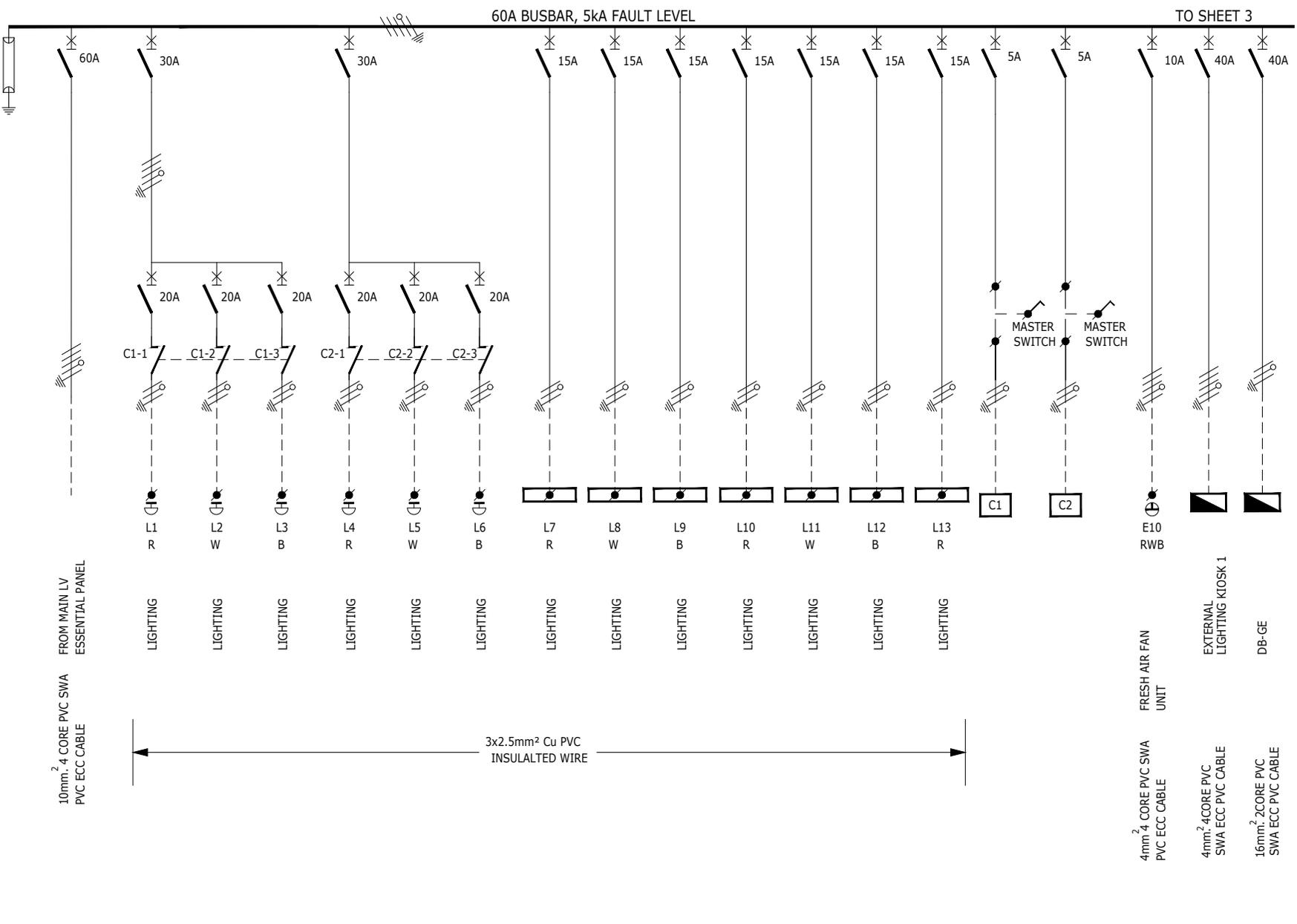
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RSN	RM	Mar'22	NTS	RSN
PROJECT No.	DRAWING No.	SHEET:	PAPER SIZE:	REV.
20013	405	1 of 3	A3	0
DESCRIPTION	BY	DATE	CHKD.	File Name :
				Lyr:

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

IBUYA Consulting Engineers
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FIELD
CIRCUIT No.
PHASE

DESIGNATION

WIRING

LOAD (AMPS)
No. OF POINTS
CABLE No.

FROM MAIN LV
ESSENTIAL PANEL

10mm² 4 CORE PVC SWA
PVC ECC CABLE

3x2.5mm² Cu PVC
INSULATED WIRE

4mm² 4 CORE PVC SWA
PVC ECC CABLE

4mm² 4CORE PVC
SWA ECC PVC CABLE

16mm² 2CORE PVC
SWA ECC PVC CABLE

MECHANICAL BARRIER

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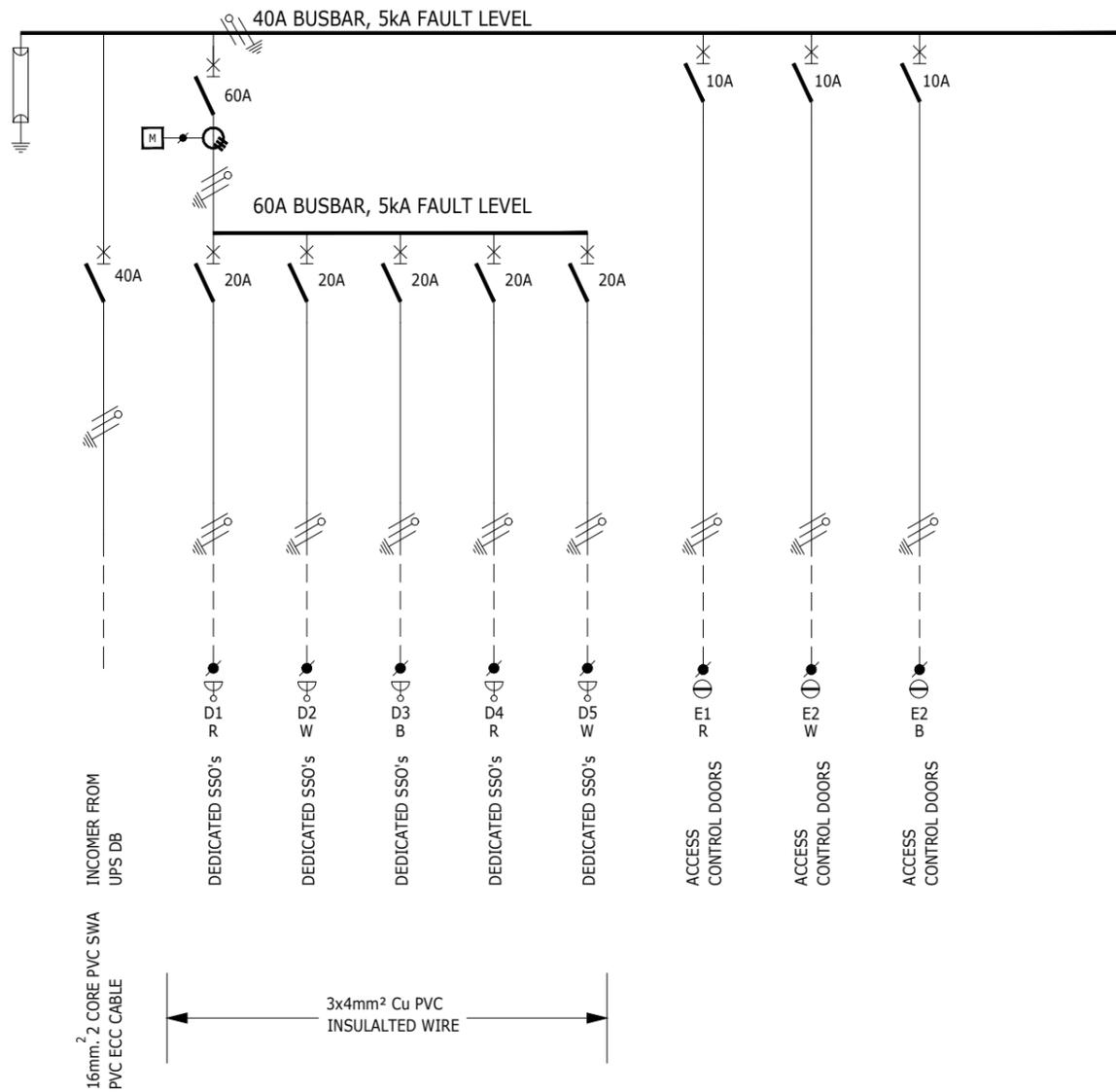
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20013	405	2 of 3	A3	0
DESCRIPTION	BY	DATE	CHKD.	File Name :
Original Issue	RM	25/03/22	RSN	Lyr:

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



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FIELD
CIRCUIT No.
PHASE

DESIGNATION

WIRING

LOAD (AMPS)
No. OF POINTS
CABLE No.

INCOMER FROM
UPS DB

16mm² CORE PVC SWA
PVC ECC CABLE

3x4mm² Cu PVC
INSULATED WIRE

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