

ELECTRICAL DESIGN GROUP

LOWER GROUND

GROUND

GROUND

GROUND

ELECTRICAL BUILDING SERVICES CONSULTANTS
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C3148a - 78 MUSGRAVE ROAD, RED HILL DISTRIBUTION BOARD DB-A

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GPOs

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OFFICES

FINANCE

FINANCE

TRAINING

AMENITY

RFF

KITCHEN

MW

AUTO BOILER

GPOs

AMENITY

RECEPTION

REVISION A - 23 NOVEMBER 2023

							REV
FAULT CURRENT: CHASSIS SIZE: CHASSIS RATING: PHASES:			6kA		MAIN SWITCH:	160A NON AUTO LOAD BREAK	А
			2 X 74 POLES		SUPPLIED FROM:	MSB	Α
			250A		SUPPLY CABLE:	4C 35	А
			3				А
WITH	AN AS229	DB WITH A FULL WIDTH EM 3 EMERGENCY LIGHTING ROTECTION.					А
OIDO	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm²)	LOCATION	CIRCUIT USE	
CIRC							
P1	3	32	RCBO	6.0	UNDERGCROFT	AC1	Α
P1 P2	3	32 32	RCBO RCBO	6.0 6.0	UNDERGCROFT UNDERGCROFT	AC1 AC2	A A
	_						
P2	3	32	RCBO	6.0	UNDERGCROFT	AC2	Α
P2 P3	3	32 32	RCBO RCBO	6.0 6.0	UNDERGCROFT UNDERGCROFT	AC2 AC3	A A
P2 P3 P4	3 3	32 32 32 32	RCBO RCBO RCBO	6.0 6.0 6.0	UNDERGCROFT UNDERGCROFT UNDERGCROFT	AC2 AC3 AC4	A A A
P2 P3 P4 P5	3 3 3	32 32 32 32 32	RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT	AC2 AC3 AC4 AC5	A A A
P2 P3 P4 P5 P6	3 3 3 1	32 32 32 32 32 32	RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT	AC2 AC3 AC4 AC5 AC6	A A A A
P2 P3 P4 P5 P6	3 3 3 1 1	32 32 32 32 32 32 32 32	RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT	AC2 AC3 AC4 AC5 AC6 AC7	A A A A
P2 P3 P4 P5 P6 P7 P8	3 3 3 1 1 1	32 32 32 32 32 32 32 32 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0 4.0 2.5	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT LOWER GROUND	AC2 AC3 AC4 AC5 AC6 AC7 NBN	A A A A A
P2 P3 P4 P5 P6 P7 P8 P9	3 3 3 1 1 1 1	32 32 32 32 32 32 32 20 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0 4.0 2.5 2.5	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT LOWER GROUND LOWER GROUND	AC2 AC3 AC4 AC5 AC6 AC7 NBN SECURITY	A A A A A A
P2 P3 P4 P5 P6 P7 P8 P9	3 3 3 1 1 1 1 1 1	32 32 32 32 32 32 32 20 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0 4.0 2.5 2.5 2.5	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT LOWER GROUND LOWER GROUND	AC2 AC3 AC4 AC5 AC6 AC7 NBN SECURITY CR-A CR-A HWS	A A A A A A A
P2 P3 P4 P5 P6 P7 P8 P9 P10 P11	3 3 3 1 1 1 1 1 1 1	32 32 32 32 32 32 32 20 20 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0 4.0 2.5 2.5 2.5 2.5	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT LOWER GROUND LOWER GROUND LOWER GROUND LOWER GROUND	AC2 AC3 AC4 AC5 AC6 AC7 NBN SECURITY CR-A CR-A HWS	A A A A A A A A
P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12	3 3 3 1 1 1 1 1 1 1 1 1 3	32 32 32 32 32 32 32 32 20 20 20 20 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO RCBO	6.0 6.0 6.0 4.0 4.0 4.0 2.5 2.5 2.5 2.5 2.5	UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT UNDERGCROFT LOWER GROUND LOWER GROUND LOWER GROUND LOWER GROUND LOWER GROUND LOWER GROUND	AC2 AC3 AC4 AC5 AC6 AC7 NBN SECURITY CR-A CR-A HWS	A A A A A A A

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P29 1 20 **RCBO** 2.5 LOWER GROUND DW Α P30 1 20 RCBO 2.5 LOWER GROUND PRINTER Α P31 20 RCBO LOWER GROUND GPOs P32 1 20 **RCBO** 2.5 **GROUND OFFICES** Α P33 20 **RCBO** 2.5 **GROUND ADMIN** Α P34 1 20 **RCBO** 2.5 GROUND **ADMIN** Α P35 1 GROUND ADMIN **RCBO** 2.5 Α 20 P36 20 RCBO GROUND **ADMIN** P37 20 Α 1 RCBO 2.5 GROUND ADMIN P38 RCBO GROUND **OFFICES** 20 Α OFFICES P39 2.5 1 20 **RCBO** GROUND Α P40 MEETING 1 20 RCBO 2.5 GROUND Α P41 20 **RCBO** 2.5 **GROUND GPOs** P42 BOARD ROOM 1 20 RCBO 2.5 GROUND Α

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		FAULT CURRENT:	6kA		MAIN SWITCH:	160A NON AUTO LOAD BREAK	Α
CHASSIS SIZE:			2 X 74 POLES		SUPPLIED FROM:	MSB	Α
CHASSIS RATING:			250A		SUPPLY CABLE:	4C 35	Α
		PHASES:	3				
WITH	AN AS229	DB WITH A FULL WIDTH EN 33 EMERGENCY LIGHTING ROTECTION.					А
CIRC	PH	CIRCUIT	CONTROL EQUIPMENT	CABLE SIZE (mm²)	LOCATION	CIRCUIT USE	
		BREAKER (amps)					
P46	1	20	RCBO	2.5	GROUND	KITCHEN	Α
P47	1	20	RCBO	2.5	GROUND	DW	Α
P48	1	20	RCBO	2.5	GROUND	AUTO BOILER	Α
P49	1	20	RCBO	2.5	GROUND	MW	Α
P50	1	20	RCBO	2.5	GROUND	MW	Α
P51	1	20	RCBO	2.5	GROUND	REF	Α
P52	1	20	RCBO	2.5	GROUND	PRINTER	Α
P53	3	20	RCBO TC ON / OFF	2.5	ROOF	TOILET EXHAUST	A
	1	20	RCBO	2.5	LOWER GROUND	LIGHTING	Α
L1							
L2	1	20	RCBO	2.5	LOWER GROUND	LIGHTING	A
L2 L3	1	20	RCBO	2.5	LOWER GROUND	LIGHTING	Α
L2 L3 L4	1	20 20	RCBO RCBO	2.5 2.5	LOWER GROUND LOWER GROUND	LIGHTING LIGHTING	A A
L2 L3 L4 L5	1 1 1	20 20 20	RCBO RCBO RCBO	2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND	LIGHTING LIGHTING LIGHTING	A A
L2 L3 L4 L5 L6	1 1 1	20 20 20 20 20	RCBO RCBO RCBO RCBO	2.5 2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND GROUND	LIGHTING LIGHTING LIGHTING LIGHTING	A A A
L2 L3 L4 L5 L6 L7	1 1 1 1	20 20 20 20 20 20	RCBO RCBO RCBO RCBO RCBO	2.5 2.5 2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND GROUND GROUND	LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING	A A A A
L2 L3 L4 L5 L6 L7	1 1 1 1 1	20 20 20 20 20 20 20	RCBO RCBO RCBO RCBO RCBO RCBO	2.5 2.5 2.5 2.5 2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND GROUND GROUND GROUND	LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING	A A A A
L2 L3 L4 L5 L6 L7 L8	1 1 1 1 1 1	20 20 20 20 20 20 20 20 20	RCBO RCBO RCBO RCBO RCBO RCBO RCBO	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND GROUND GROUND GROUND GROUND GROUND	LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING	A A A A A
L2 L3 L4 L5 L6 L7	1 1 1 1 1	20 20 20 20 20 20 20	RCBO RCBO RCBO RCBO RCBO RCBO	2.5 2.5 2.5 2.5 2.5 2.5 2.5	LOWER GROUND LOWER GROUND LOWER GROUND GROUND GROUND GROUND	LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING LIGHTING	A A A A