



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C2439a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, CHA04

C2439a-0004(F).xls

DISTRIBUTION BOARD DB-4

REVISION F - 28 OCTOBER 2022

<div>FAULT CURRENT: 6KA</div> <div>MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR</div> <div>CHASSIS SIZE: 2 x 60 POLES</div> <div>SUPPLIED FROM: MDB</div> <div>CHASSIS RATING: 250A</div> <div>SUPPLY CABLE: 1C 120</div> <div>PHASES: 3</div>							REV
							A
							A
							A
							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY. PROVIDE THE DISTRIBUTION BOARD WITH A 160 AMP MCCB WITH THE TRIP UNIT SET AT In 0.8 TO SUPPLY THE MSSB. PROVIDE THE MSSB SUBMAIN AS A 4C 50MM XLPE / PVC + E CABLE.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P1	1	20	RCD	2.5	ROOF	3.6KW HWS	A
P2	1	20	RCD	2.5	ROOF	WINDOWS	A
P3	1	20	RCD	2.5	ROOF	MAINT GPO	A
P4	1	20	RCD	2.5	GROUND	EXT GPO	A
P5	1	20	RCD	2.5	GROUND	MAINT GPO	A
P6	1	20	RCD	2.5	GROUND	FOYER GPO	A
P7	1	20	RCD	2.5	GROUND	COURT GPO	A
P8	1	20	RCD	2.5	GROUND	RECEPTION	A
P9	1	20	RCD	2.5	GROUND	PWD HD	A
P10	1	20	RCD	2.5	GROUND	FIRST AID	A
P11	1	20	RCD	2.5	GROUND	OFFICES	A
P12	1	20	RCD	2.5	GROUND	OFFICES	E
P13	1	20	RCD	2.5	LEVEL 1	CR-4	F
P14							E
P15	1	20	RCD	2.5	GROUND	STORE	A
P16	1	20	RCD	2.5	GROUND	DWD HD	A
P17	1	20	RCD	2.5	GROUND	AMENITY	A
P18	1	20	RCD	2.5	GROUND	MALE HD	A
P19	1	20	RCD	2.5	GROUND	FEMALE HD	B
P20	1	20	RCD	2.5	GROUND	GLA 3	A
P21	1	20	RCD	2.5	GROUND	GLA 2	A
P22	1	20	RCD	2.5	GROUND	GLA 1	A
P23	3	40	RCD TYPE B	6.0	LEVEL 1	LIFT	A
P24	1	20	RCD	2.5	LEVEL 1	CR4	A
P25	1	20	RCD	2.5	LEVEL 1	MAINT GPO	A
P26	1	20	RCD	2.5	LEVEL 1	SECURITY	A
P27	1	20	RCD	2.5	LEVEL 1	GLA 7	A
P28	1	20	RCD	2.5	LEVEL 1	GLA 8	A
P29	1	20	RCD	2.5	LEVEL 1	FEMALE HD	A
P30	1	20	RCD	2.5	LEVEL 1	MALE HD	A
P31	1	20	RCD	2.5	LEVEL 1	AMENITY	A
P32	1	20	RCD	2.5	LEVEL 1	PWD HD	A
P33	1	20	RCD	2.5	LEVEL 1	COURT GPO	A
P34	1	20	RCD	2.5	LEVEL 1	COURT GPO	A
P35	1	20	RCD	2.5	LEVEL 1	GLA 6	A
P36	1	20	RCD	2.5	LEVEL 1	GLA 5	A
P37	1	20	RCD	2.5	LEVEL 1	GLA 4	A
P38	1	20	RCD	2.5	LEVEL 1	3.6KW HWS	B
P39							D
P40	1	40	RCD	6.0	GROUND	7.2KW HWS	B
P41	1	20	RCD	2.5	LEVEL 1	REFRIGERATOR	C
P42	1	20	RCD	2.5	LEVEL 1	REF & ICE MAKER	C
P43	1	20	RCD	2.5	LEVEL 1	MICROWAVE	C

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Pages inc. any attach. 1 of 2



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FAULT CURRENT:		6KA	MAIN SWITCH:		250A NON AUTO LOAD BREAK ISOLATOR		A
CHASSIS SIZE:		2 x 60 POLES	SUPPLIED FROM:		MDB		A
CHASSIS RATING:		250A	SUPPLY CABLE:		1C 120		A
PHASES:		3					A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY. PROVIDE THE DISTRIBUTION BOARD WITH A 160 AMP MCCB WITH THE TRIP UNIT SET AT In 0.8 TO SUPPLY THE MSSB. PROVIDE THE MSSB SUBMAIN AS A 4C 50MM XLPE / PVC + E CABLE.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
L1	1	20	RCD PE ON DUSK OFF DAWN	2.5	EXTERNAL	SECURITY LIGHTS	A
L2	1	20	RCD PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L3	1	20	RCD PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L4	1	20	RCD PE ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTING	A
L5	1	20	RCD PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
L6	1	20	RCD	2.5	GROUND	RECEPTION LIGHTS	A
L7	1	20	RCD	2.5	GROUND	OFFICE LIGHTS	A
L8	1	20	RCD	2.5	GROUND	WORK ROOM LIGHTS	A
L9	1	20	RCD	2.5	GROUND	AMENITY LIGHTS	A
L10	1	20	RCD	2.5	GROUND	COURT LIGHTS	A
L11	1	20	RCD	2.5	GROUND	FOYER LIGHTS	A
L12	1	20	RCD	2.5	GROUND	GLA 1 LIGHTS	A
L13	1	20	RCD	2.5	GROUND	GLA 2 LIGHTS	A
L14	1	20	RCD	2.5	GROUND	GLA 3 LIGHTS	A
L15	1	20	RCD	2.5	LEVEL 1	STORE LIGHTS	A
L16	1	20	RCD	2.5	LEVEL 1	GLA 7 LIGHTS	A
L17	1	20	RCD	2.5	LEVEL 1	GLA 8 LIGHTS	A
L18	1	20	RCD	2.5	LEVEL 1	AMENITY LIGHTS	A
L19	1	20	RCD	2.5	LEVEL 1	PORCH LIGHTS	A
L20	1	20	RCD	2.5	LEVEL 1	GLA 6 LIGHTS	A
L21	1	20	RCD	2.5	LEVEL 1	GLA 5 LIGHTS	A
L22	1	20	RCD	2.5	LEVEL 1	GLA 4 LIGHTS	A
L23	1	20	RCD	2.5	LEVEL 1	FOYER LIGHTS	A