

# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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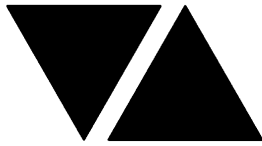
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## C3120a - ST JOHNS ANGLICAN COLLEGE, FOREST LAKE - AQUATIC CENTRE STAGE 1C3120a-0009(D).xls

### DISTRIBUTION BOARD DB-2 (GROUND)

REVISION D - 28 JULY 2025

FAULT CURRENT: 6kA UTILISING CASCADING							REV
CHASSIS SIZE: 2 x 84 POLES							A
CHASSIS RATING: 250A							A
PHASES: 3							A
PROVIDE THE DISTRIBUTION BOARD WITH SURGE PROTECTION AND AN AS2293 TESTING FACILITY. REFER TO THE SCHEMATIC FOR THE ARRANGEMENT DETAILS. ENSURE THE CIRCUIT BREAKERS AND LOAD ARE EVENLY DISTRIBUTED ACROSS THE CHASSIS EACH CUBICAL CONTAINING A 84 POLE CHASSIS MUST BE AT LEAST 700 WIDE. PROVIDE THE DISTRIBUTION BOARD WITH A SPARE WILL WIDTH HORIZONTAL DIN RAIL IN ADDITION TO THE DIN RAIL REQUIRED TO ACCOMMODATE THE CONTROLS SUPPLIED AS PART OF THE CONTRACT WORKS.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	BASEMENT	BBQ	A
P2	1	20	RCBO	2.5	BASEMENT	MAINTENANCE	A
P3	1	20	RCBO	2.5	BASEMENT	OFFICE	A
P4	1	20	RCBO	2.5	BASEMENT	STAFF	A
P5	1	20	RCBO	2.5	BASEMENT	ADMINISTRATION	A
P6	1	20	RCBO	2.5	BASEMENT	DISPLAY	A
P7	1	20	RCBO	2.5	BASEMENT	HD	A
P8	1	20	RCBO	2.5	BASEMENT	SUPA TAP	A
P9	1	20	RCBO	2.5	BASEMENT	SUPA TAP	A
P10	1	20	RCBO	2.5	BASEMENT	KITCHEN	A
P11	1	20	RCBO	2.5	BASEMENT	REF / MW	A
P12	1	20	RCBO	2.5	GROUND LEVEL	STAFF	A
P13	1	20	RCBO	2.5	GROUND LEVEL	STAFF	A
P14	1	20	RCBO	2.5	GROUND LEVEL	GLA 4	A
P15	1	20	RCBO	2.5	GROUND LEVEL	GLA 3	A
P16	1	20	RCBO	2.5	GROUND LEVEL	GLA 2	A
P17	1	20	RCBO	2.5	GROUND LEVEL	GLA 1	A
P18	1	20	RCBO	2.5	GROUND LEVEL	CIRCULATION	A
P19	1	20	RCBO	2.5	GROUND LEVEL	CIRCULATION	A
P20	1	20	RCBO	2.5	GROUND LEVEL	BBQ	A
P21	1	20	RCBO	2.5	GROUND LEVEL	COMMON	A
P22	1	20	RCBO	2.5	GROUND LEVEL	SUPA TAP	A
P23	1	20	RCBO	2.5	GROUND LEVEL	SUPA TAP	A
P24	1	20	RCBO	2.5	GROUND LEVEL	KITCHEN	A
P25	1	20	RCBO	2.5	GROUND LEVEL	REF / MW	A
P26	1	20	RCBO	2.5	LEVEL 1	CLASS 1	A
P27	1	20	RCBO	2.5	LEVEL 1	CLASS 2	A
P28	1	20	RCBO	2.5	LEVEL 1	CLASS 3	A
P29	1	20	RCBO	2.5	LEVEL 1	CLASS 4	A
P30	1	20	RCBO	2.5	LEVEL 1	STAFF	A
P31	1	20	RCBO	2.5	LEVEL 1	OFFICE	A
P32	1	20	RCBO	2.5	LEVEL 1	FLA	A
P33	3	32 C CURVE		6 + 6 EARTH	LEVEL 1	LIFT	C
P34	1	20	RCBO	2.5	LEVEL 1	STAFF	A
P35	1	20	RCBO	2.5	LEVEL 1	CIRCULATION	A
P36	1	20	RCBO	2.5	LEVEL 1	CIRCULATION	A
P37	1	20	RCBO	2.5	LEVEL 1	BMS	A
P38	1	20	RCBO	2.5	LEVEL 1	FLOOR BOXES	A
P39	1	20	RCBO	2.5	LEVEL 1	FLOOR BOXES	A
P40	1	20	RCBO	2.5	LEVEL 1	SUPA TAP	A
P41	1	20	RCBO	2.5	LEVEL 1	SUPA TAP	A
P42	1	20	RCBO	2.5	LEVEL 1	KITCHEN	A
P43	1	20	RCBO	2.5	LEVEL 1	REF / MW	A
P44	1	20	RCBO	2.5	EXTERNAL	MAINTENANCE	A
P45	3	20	RCBO	2.5	EXTERNAL	GATE	A
P46	1	20	RCBO	2.5	BASEMENT	PUMP	A
P47	3	20	RCBO	2.5	BASEMENT	3X3.6KW HWS	A
P48	3	20	RCBO	2.5	BASEMENT	3X3.6KW HWS	A
P49	3	32	RCBO	4.0	LEVEL 1	HWS	A
P50	1	20	RCBO	2.5	LEVEL 1	HAND DRYER	D
P51	1	20	RCBO	2.5	BASEMENT	HAND DRYER	D



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CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
L1	1	20	RCBO	2.5	BASEMENT	LIGHTING	A
L2	1	20	RCBO	2.5	BASEMENT	LIGHTING	A
L3	1	20	RCBO	2.5	BASEMENT	LIGHTING	A
L4	1	20	RCBO CH 1	2.5	BASEMENT	POOL LIGHTING	A
L5	1	20	RCBO CH 1	2.5	BASEMENT	POOL LIGHTING	A
L6	1	20	RCBO CH 2	2.5	BASEMENT	ENTRY LIGHTING	A
L7	1	20	RCBO CH 3	2.5	BASEMENT	AMENITY LIGHTING	A
L8	1	20	RCBO	2.5	GROUND LEVEL	LIGHTING	A
L9	1	20	RCBO	2.5	GROUND LEVEL	GLA 4 LIGHTING	A
L10	1	20	RCBO	2.5	GROUND LEVEL	GLA 3 LIGHTING	A
L11	1	20	RCBO	2.5	GROUND LEVEL	GLA 2 LIGHTING	A
L12	1	20	RCBO	2.5	GROUND LEVEL	GLA 1 LIGHTING	A
L13	1	20	RCBO	2.5	GROUND LEVEL	LIGHTING	A
L14	1	20	RCBO CH 13	2.5	GROUND LEVEL	FANS	A
L15	1	20	RCBO CH 13	2.5	GROUND LEVEL	FANS	A
L16	1	20	RCBO CH 4	2.5	GROUND LEVEL	LIGHTING	A
L17	1	20	RCBO CH 5	2.5	GROUND LEVEL	LIGHTING	A
L18	1	20	RCBO CH 6	2.5	GROUND LEVEL	LIGHTING	A
L19	1	20	RCBO CH 7	2.5	GROUND LEVEL	LIGHTING	A
L20	1	20	RCBO CH 8	2.5	GROUND LEVEL	LIGHTING	A
L21	1	20	RCBO	2.5	GROUND LEVEL	LOUVRES	A
L22	1	20	RCBO	2.5	GROUND LEVEL	LOUVRES	A
L23	1	20	RCBO	2.5	LEVEL 1	LIGHTING	A
L24	1	20	RCBO	2.5	LEVEL 1	CLASS 1 LIGHTING	A
L25	1	20	RCBO	2.5	LEVEL 1	CLASS 2 LIGHTING	A
L26	1	20	RCBO	2.5	LEVEL 1	CLASS 3 LIGHTING	A
L27	1	20	RCBO	2.5	LEVEL 1	CLASS 4 LIGHTING	A
L28	1	20	RCBO	2.5	LEVEL 1	STAFF LIGHTING	A
L29	1	20	RCBO	2.5	LEVEL 1	OFFICE LIGHTING	A
L30	1	20	RCBO	2.5	LEVEL 1	FLA LIGHTING	A
L31	1	20	RCBO CH 13	2.5	LEVEL 1	FANS	A
L32	1	20	RCBO CH 9	2.5	LEVEL 1	LIGHTING	A
L33	1	20	RCBO CH 10	2.5	LEVEL 1	LIGHTING	A
L34	1	20	RCBO CH 11	2.5	LEVEL 1	LIGHTING	A
L35	1	20	RCBO	2.5	LEVEL 1	BLINDS	A
L36	1	20	RCBO	2.5	LEVEL 1	LOUVRES	A
L37	1	20	RCBO	2.5	LEVEL 1	LOUVRES	A
L38	1	20	RCBO CH 12	2.5	EXTERNAL	SIGNAGE	A
L39	1	20	RCBO CH 13	2.5	LEVEL 1	FANS	A
L40	1	20	RCBO CH 12	2.5	EXTERNAL	LIGHTING	A
L41	1	20	RCBO CH 12	2.5	EXTERNAL	LIGHTING	A
L42	1	20	RCBO CH 12	2.5	EXTERNAL	LIGHTING	B