



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C3474a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, SENIOR SCHOOL CHA12

C3474a-0005(A).xls

DISTRIBUTION BOARD DB-12L

REVISION A - 26 JANUARY 2026

|         |    |                           |   |                                   |          |                       | REV |
|---------|----|---------------------------|---|-----------------------------------|----------|-----------------------|-----|
| CIRCUIT | PH | CIRCUIT<br>BREAKER (amps) | CONTROL<br>EQUIPMENT                      | CABLE<br>SIZE ( mm <sup>2</sup> ) | LOCATION | CIRCUIT<br>USE        | A   |
|         |    |                           |   |                                   |          |                       | A   |
|         |    |                           |   |                                   |          |                       | A   |
|         |    |                           |   |                                   |          |                       | A   |
| 1       | 1  | 20                        | RCBO PE ON DUSK<br>OFF DAWN               | 2.5                               | EXTERNAL | SECURITY LIGHTS       | A   |
| 2       | 1  | 20                        | RCBO PE ON DUSK TC<br>OFF 10.00PM         | 2.5                               | EXTERNAL | LIGHTING              | A   |
| 3       | 1  | 20                        | RCBO PE ON DUSK<br>OFF DAWN               | 2.5                               | EXTERNAL | LIGHTING              | A   |
| 4       | 1  | 20                        | RCBO PE ON DUSK TC<br>OFF 10.00PM         | 2.5                               | EXTERNAL | LIGHTING              | A   |
| 5       | 1  | 20                        | RCBO PE ON DUSK TC<br>OFF 10.00PM         | 2.5                               | EXTERNAL | LIGHTING              | A   |
| 6       | 1  | 20                        | RCBO                                      | 2.5                               | GROUND   | COVERED AREA LIGHTING | A   |
| 7       | 1  | 20                        | RCBO                                      | 2.5                               | GROUND   | COVERED AREA LIGHTING | A   |
| 8       | 1  | 20                        | RCBO                                      | 2.5                               | GROUND   | AMENITY LIGHTING      | A   |
| 9       | 1  | 20                        | RCBO                                      | 2.5                               | GROUND   | AMENITY LIGHTING      | A   |
| 10      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | AMENITY LIGHTING      | A   |
| 11      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | AMENITY LIGHTING      | A   |
| 12      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | COMMON LIGHTS         | A   |
| 13      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | COMMON LIGHTS         | A   |
| 14      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | GLA 1 LIGHTING        | A   |
| 15      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | GLA 2 LIGHTING        | A   |
| 16      | 1  | 20                        | RCBO INTERFACED TO<br>THE SECURITY SYSTEM | 2.5                               | LEVEL 1  | GLA 3 LIGHTING        | A   |

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Pages inc. any attach. 1 of 2



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|   |    |                        |  |                                |          |                  | REV |
|---|----|------------------------|--|--------------------------------|----------|------------------|-----|
|   |    |                        |  |                                |          |                  | 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 AND SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. |    |                        |  |                                |          |                  | A   |
| CIRC  | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT                      | CABLE SIZE ( mm <sup>2</sup> ) | LOCATION | CIRCUIT USE      |     |
| 17  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 1  | ART LIGHTS       | A   |
| 18  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 1  | ART LIGHTS       | A   |
| 19  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | AMENITY LIGHTING | A   |
| 20  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | AMENITY LIGHTING | A   |
| 21  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | STUDY LIGHTS     | A   |
| 22  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | STUDY LIGHTS     | A   |
| 23  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | STUDY LIGHTS     | A   |
| 24  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | STUDY LIGHTS     | A   |
| 25  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | GLA 1 LIGHTING   | A   |
| 26  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | GLA 2 LIGHTING   | A   |
| 27  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | GLA 3 LIGHTING   | A   |
| 28  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | MEETING LIGHTS   | A   |
| 29  | 1  | 20                     | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5                            | LEVEL 2  | STAFF LIGHTS     | A   |
|   |    |                        |  |                                |          |                  |     |