NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- CO-ORDINATION.
- INSPECTIONS. TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION. LIGHTING.
- COMMUNICATIONS CABLING.
- ACCESS CONTROL
- INTRUDER DETECTION.
- PA / SCHOOL BELL. ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

PRIOR TO COMMENCING WORK CONSULT SITE MANAGEMENT FOR ANY HAZARDOUS MATERIAL AND OR ASBESTOS REGISTERS AS WELL AS UNDERTAKE A THOROUGH INSPECTION OF THE SITE TO IDENTIFY ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS. ADVISE THE CONTRACTOR OF ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS IF IDENTIFIED AND DO NOT COMMENCE WORK UNTIL AN APPROPRIATE MANAGEMENT PLAN HAS BEEN DEVELOPED AND AGREED TO BY ALL PARTIES.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REMOVE ALL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF THE RELEVANT CURRENT LICENSE ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE SUB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER'S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW. AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT. - ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008. AS1670.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT. ACMA REQUIREMENTS.
- 4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA.
- LOCAL COUNCIL. LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY. QLD FIRE AND RESCUE AUTHORITY.
- 5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm2 TWIN & EARTH STRANDED COPPER CONDUCTORS. PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

NOTES

6. POWER DISTRIBUTION

SUPPLY IS TO BE REMOVED.

BLUE TECH ELECTRICAL, DAVE VAN DEN BERG bluetechelectrical@outlook.com 0409 003 058 IS TO BE ENGAGED TO UNDERTAKE THE POWER DISTRIBUTION WORKS.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW 125 AMP MCCB IN THE MSB AND A 4C+E 50MM2 Cu XLPE/PVC SUBMAIN FROM THE MSB VIA A NEW CONCEALED CABLE PATH TO A NEW DISTRIBUTION BOARD DB-A. THE EXISTING DISTRIBUTION BOARD AND IT ASSOCIATED

REFER TO THE DISTRIBUTION BOARD SCHEDULE FOR ADDITIONAL REQUIREMENTS AND CIRCUIT DETAILS.

- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.

PROVIDE THE DISTRIBUTION BOARD AS FOLLOW:

- 3 POINT LOCKABLE HANDLES ON ALL DOORS.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS - ALL SWITCHGEAR TO BE SCHNEIDER OR NHP/ TERASAKI.
- AS2293 TEST FACILITY.
- SURGE PROTECTION.
- CIRCUIT SCHEDULE. - ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.

ALL EXISTING CIRCUITS THAT REMAIN ARE THAT WERE SUPPLIED FROM THE EXISTING DISTRIBUTION BOARD ARE TO BE RESUPPLIED FROM THE NEW DISTRIBUTION BOARD WITH NEW SWITCHGEAR WITH THE SAME CAPACITY AND FUNCTION AS THE ORIGINAL SWITCHGEAR.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- CABLE ACCESS.
- MSB MCCB AND UPDATED LABELLING. DISTRIBUTION BOARD DB-A.
- DB-A SUBMAIN.
- REMOVAL OF THE EXISTING DISTRIBUTION BOARD.
- EARTHING.
- CIRCUITS. ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- 7. LIGHTING

BLUE TECH ELECTRICAL, DAVE VAN DEN BERG bluetechelectrical@outlook.com 0409 003 058 IS TO BE ENGAGED TO UNDERTAKE THE LIGHTING WORKS.

ALL OF THE LIGHT FITTINGS, LAMPS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES. LAMPS.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION. LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.

TESTING AND COMMISSIONING.

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM THAT COMPLIES WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS MAINTAINED WITH HE LAMP PERMANENTLY ON SUPPLIED VIA AN UNSWITCHED ACTIVE MAINS SUPPLY WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE, THE LAMP IS TO REMAIN ON SUPPLIED BY THE EMERGENCY PACK. SINGLE LAMP MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ALWAYS ON.)

INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS NON-MAINTAINED AS FOLLOWS: - IF THE FITTING IS NOT BEING SWITCHED. THE LAMP IS TO REMAIN OFF WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON SUPPLIED BY THE EMERGENCY PACK. UNSWITCHED SINGLE LAMP NON-MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ON ONLY WHEN THE MAINS SUPPLY IS NOT

- IF THE FITTING IS BEING SWITCHED, THE LAMP IS TO BE SUPPLIED AND CONTROLLED WITH THE LOCAL GENERAL AREA LIGHTING WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON, SUPPLIED BY THE EMERGENCY PACK. (THE LAMP IS ON WHEN TURNED ON WITH THE LOCAL GENERAL LIGHTING OR THE MAIN SUPPLY IS NOT AVAILABLE.)

INSTALL EMERGENCY LIGHTS SUCH THAT THE STATUS INDICATOR L.E.D. IS CLEARLY VISIBLE AND THE TEST BUTTONS ARE READILY ACCESSIBLE. LABEL EACH CIRCUIT BREAKER WHICH CONTROLS THE UNSWITCHED ACTIVE TO EXIT LIGHTS WITH A LABEL FIXED ADJACENT; ENGRAVED PLASTIC LAMINATE, GREEN BACKGROUND WITH WHITE CHARACTERS: -

WARNING

INTERRUPTING SUPPLY WILL DISCHARGE

EMERGENCY LIGHTING BATTERIES

PROVIDE WRITTEN EVIDENCE OF THE INITIAL COMMISSIONING AND TESTING AND TESTING FOR THE DURATION OF THE MAINTENANCE PERIOD IN ACCORDANCE WITH AS 2293.2.

THIS EVIDENCE IS TO BE IN THE FORM OF A LOG BOOK SIMILAR TO THE GENERAL LIGHTING SERVICE PTY LTD "EMERGENCY LIGHTING MAINTENANCE LOG BOOK AND MANUAL" WHICH IS TO BE PROVIDED BY THE ELECTRICAL SUB-CONTRACTOR AND HAVE ALL ENTRIES FULLY COMPLETED AND BE PRESENTED FOR INSPECTION AT PRACTICAL COMPLETION. THE LOG BOOK IS TO BE RETAINED BY THE ELECTRICAL SUB-CONTRACTOR FOR THE DURATION OF THE MAINTENANCE PERIOD, AND THE SIX MONTHLY TEST AND MAINTENANCE RESULTS ENTERED. THE LOG BOOK IS TO BE PRESENTED FOR APPROVAL AT FINAL COMPLETION (EXPIRY OF THE MAINTENANCE PERIOD) AND WILL BE FORWARDED TO THE OPERATOR FOR THEIR USE.

PROVIDE MAINTENANCE OF THE EMERGENCY AND EXIT LIGHTING INSTALLATION INCLUDING RECORDS IN ACCORDANCE WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. PROVIDE THE EMERGENCY LIGHTING SYSTEM WITH A SUPPLY SENSING AND TESTING FACILITY IN ACCORDANCE WITH AS 2293. 1.

NOTES

8. COMMUNICATIONS

ALLIANCE SI, JOEL FARTHING Joel. Farthing@alliancesi.com.au 0409 003 058 IS TO BE ENGAGED TO UNDERTAKE THE COMMUNICATIONS WORKS.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A CONCEALED LC 6 CORE OM3 FIBRE CABLE FROM A NEW FOBOT MOUNTED IN THE TBA COMMUNICATIONS RACK TO A NEW COMMUNICATIONS RACK CR-A FULLY TERMINATED WITH LC CONNECTORS. THE COMMUNICATIONS OUTLETS ARE TO BE CAT 6 OUTLETS RUN IN STAR CONFIGURATION TO PATCH PANELS IN CR-A.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- COMMUNICATIONS RACK CR-A.
- A FOBOT AND PATCH PANELS AS REQUIRED IN THE TBA COMMUNICATION RACK.
- OPTICAL FIBRE CABLE CONNECTING THE TBA COMMUNICATION RACK FOBOT TO CR-A.
- NEW CAT 6 COMMUNICATIONS OUTLETS. TESTING AND COMMISSIONING.

PROVIDE CR-A IN ACCORDANCE WITH THE FOLLOWING:

- HINGED / SWING FRAME WALL MOUNTED.
- 24RU 600 DEEP. - TWO VENTILATION FANS MOUNTED IN THE TOP PANEL.
- SOLID LOCKABLE DOOR AND SIDES.
- VENTILATED BASE THAT CAN ONLY BE REMOVED ONCE THE DOOR IS UNLOCKED.
- FRONT AND REAR VERTICAL MOUNTING RAILS.
- 2 No 8x10 AMP POWER RAILS MOUNTED ON THE REAR VERTICAL MOUNTING RAILS (ONE TOP AND ONE BOTTOM). CONNECT THE POWER RAILS TO THE DOUBLE GPO. ENSURE THE DOUBLE GPO ASSOCIATED WITH CR-A IS ENCLOSED WITHIN THE RACK WHEN IT IS CLOSED.
- MOUNT THE RACK AS HIGH AS PRACTICAL PROVIDE SHOP DRAWINGS OR DETAILED BROCHURES OF CR-A AND ALL COMPONENTS FOR APPROVAL.

9. 0 ACCESS CONTROL

JD SECURITY, DEAN MELLITCHEY dmellitchey@jdsecurity.com.au 0499 099 411 IS TO BE ENGAGED TO UNDERTAKE THE ACCESS CONTROL WORKS.

THE SCOPE OF THE ACCESS CONTROL IS TO BE ADVISED

9. INTRUDER DETECTION

JD SECURITY, DEAN MELLITCHEY dmellitchey@jdsecurity.com.au 0499 099 411 IS TO BE ENGAGED TO UNDERTAKE THE SECURITY WORKS.

THE SCOPE OF THE INTRUDER DETECTION IS TO BE ADVISED

10. PA / SCHOOL BELL

JD SECURITY, DEAN MELLITCHEY dmellitchey@jdsecurity.com.au 0499 099 411 IS TO BE ENGAGED TO UNDERTAKE THE PA / SCHOOL BELL.

THE SCOPE OF THE PA / SCHOOL BELL

IS TO BE ADVISED

11. ABBREVIATIONS

AMP CURRENT RATING

AB - MOUNT ABOVE BENCH.

AFFL - ABOVE FINISHED FLOOR LEVEL. BB - MOUNT BELOW BENCH.

BH - MOUNT ON BULKHEAD

CEIL - MOUNT ON CEILING. CS - MOUNT WITHIN CEILING SPACE.

C/W - COMPLETE WITH.

DW - DISHWASHER. HP - HOT PLATE.

HWS - HOT WATER SYSTEM.

MCB - MINIATURE CIRCUIT BREAKER. MSB - MAIN SWITCHBOARD.

MSSB - MECHANICAL SERVICES SWITCHBOARD. MW - MICROWAVE.

N - NEON / LED INDICATOR WHEN ON. NTS - NOT TO SCALE.

OV – OVEN. RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE

INTEGRAL TO THE CIRCUIT BREAKER. 3-PHASE RCBO TO BE 4-POLE. REF - REFRIGERATOR.

500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

SUS - MOUNT SUSPENDED FROM CEILING.

UNO - UNLESS NOTED OTHERWISE. WP - WEATHERPROOF TO IP56 UNO.

> A | PRELIMINARY REV: DESCRIPTION:

ELECTRICAL SERVICES NOTES

C3548a E04

29/05/2025

DATE:

ELECTRICAL DESIGN GROUP BRISBANE ACN 092 710 793 TRADING AS:

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