

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT 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.
- CEILING FANS AND CONTROLLERS.
- COMMUNICATIONS CABLING.
- AV CABLING.
- CCTV SYSTEM.
- SECURITY SYSTEM.
- 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.

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.

UNDERTAKE A COMPREHENSIVE SURVEY OF THE EXISTING UNDERGROUND ELECTRICAL SERVICES WITHIN THE VICINITY OF THE WORKS IDENTIFYING ALL CABLE LOCATIONS PRIOR TO ANY EXCAVATION.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENCE. 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 ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL 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.

3. 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.
- 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

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE UPGRADING THE EXISTING MSB TO ACCOMMODATE A 100 AMP THREE PHASE MCCB TO SUPPLY A NEW UNDERGROUND 4 CORE 35MM SUBMAIN TO DB-A. THE NEW COVERED AREA CIRCUITS ARE TO BE SUPPLIED FROM DB-A. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- POWER DISTRIBUTION.
- EARTHING.
- MSB UPGRADE INCLUDING LABELLING.
- SUB MAINS.
- DISTRIBUTION BOARD DB-A.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

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

PROVIDE THE DISTRIBUTION BOARD AS FOLLOW:

- IP56.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 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.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.

7. LIGHTING

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.
- CEILING FANS AND THE ASSOCIATED CONTROLS.
- 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 THE 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 AVAILABLE.)
- 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.

8. COMMUNICATIONS

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

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A COMMUNICATIONS RACK CR-A SUPPORTING A CAT 6A INSTALLATION WITH A COMMSCOPE MANUFACTURERS WARRANTY. UTILISE DIFFERENT COLOUR UTP CABLING AND PATCH LEADS FOR THE COMMUNICATIONS OUTLETS, AV CABLING AND CCTV CABLING.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- COMMUNICATIONS RACK CR-A.
- CABLE ACCESS TO THE MAIN BUILDING COMMUNICATION RACK. - A FOBOT AS REQUIRED IN THE MAIN BUILDING COMMUNICATION RACK.
- OPTICAL FIBRE CABLE CONNECTING THE MAIN BUILDING COMMUNICATION RACK FOBOT TO CR-A.
- NEW CAT 6 COMMUNICATIONS OUTLETS.
- TESTING AND COMMISSIONING.

9. AV CABLING

PROVIDE THE AV CABLING NOMINATED AS PART OF THIS CONTRACT FOR TERMINATION AND USE BY THE SPECIALIST AV CONTRACTOR. THE AV CABLING COMPONENT OF THIS CONTRACT INCLUDES THOUGH IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- CAT 6A CABLES.
- AUDIO MULTI CORE CABLES.
- SPEAKER CABLES.
- FACEPLATES.

NOTES

10. CCTV SYSTEM.

PROVIDE A FULLY IP BASED SURVEILLANCE (HD COLOUR VIDEO AND AUDIO) SOLUTION COMPRISING A NETWORKABLE NVR EQUAL TO HIKVISION DS-7732N1-14/24P MOUNTED IN CR-A CONNECTED TO THE CAMERAS VIA CAT 6 CABLING TO A DEDICATED PATCH PANEL IN CR-A. PROVIDE THE NVR WITH SUFFICIENT STORAGE TO RECORD ALL THE CAMERAS FOR 30 DAYS. CONFIRM THE POSITION, FOCUS AND AIMING OF EACH CAMERA ON SITE WITH THE SCHOOLS REPRESENTATIVE ALLOWING FOR EACH CAMERA TO BE LOCATED 1M IN ANY DIRECTION FROM THE POSITION NOMINATED INCLUDING WALL MOUNTING.

THE CCTV CAMERA UTP CABLING INCLUDING THE PATCH LEADS IS TO BE A DIFFERENT COLOUR TO THE GENERAL COMMUNICATIONS CABLING AND THE GAMING COMMUNICATIONS CABLING. PROVIDE A PATCH LEAD FOR EACH CAMERA. CAMERAS ARE TO BE MOUNTED OVER THE MOUNTING BOX WITH THE FACEPLATE REMOVED WITH THE CABLE CONNECTED TO THE CAMERA BEING CONCEALED.

PROVIDE A 27-INCH MONITOR CONNECTED TO THE NVR WITH THE MONITOR LOCATED ADJACENT TO CR-A WALL MOUNTED ON AN ADJUSTABLE BRACKET. PROVIDE THE MONITOR EQUAL TO SAMSUNG S27A804UJN / LS27A804UJNXGO TO VIEW THE CAMERAS. POWER THE MONITOR VIA THE RACK POWER RAIL.

CONNECT THE NVR TO THE SCHOOLS LAN SUCH THAT THE CCTV SYSTEM CAN BE SECURELY ACCESSED REMOTELY BY THE CLIENTS REPRESENTATIVE.

THE CCTV COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- CAMERAS.
- CAMERA MOUNTING BRACKETS AND IMPACT PROTECTION.
- NVR.
- LICENSING FOR FIVE YEARS BEYOND THE DATE OF PRACTICAL COMPLETION.
- MONITOR.
- CABLING.
- SOFTWARE FOR THIRD PARTY PC.
- PROGRAMMING.
- COMMISSIONING.
- TRAINING.

PROVIDE COMPREHENSIVE DETAILS OF THE PROPOSED CCTV EQUIPMENT AND COMPONENTS OF THE CCTV SYSTEM FOR APPROVAL PRIOR TO ORDERING.

THE CCTV SYSTEM IS TO BE UNDERTAKEN BY A SPECIALIST SECURITY CONTRACTOR THAT IS FAMILIAR WITH AND EXPERIENCED IN INSTALLING AND COMMISSIONING THE PROPOSED EQUIPMENT.

ENSURE ALL CCTV WORK IS COMPLETED BY A CURRENT MEMBER ASIAL WHO HOLDS THE APPROPRIATE SECURITY EQUIPMENT INSTALLER LICENCE. PROVIDE A COPY OF THE ASIAL MEMBERSHIP AND SECURITY EQUIPMENT INSTALLER LICENCE OF EACH STAFF MEMBER WORKING ON THE CCTV INSTALLATION COMPONENT OF THE PROJECT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. INCLUDE A COPY OF SUCH LICENSES IN THE OPERATIONS AND MAINTENANCE MANUAL.

COORDINATE THE NETWORK CONNECTIONS AND IP ADDRESS OF THE CCTV EQUIPMENT WITH THE CLIENTS REPRESENTATIVES IT STAFF.

ALLOW FOR THE ADJUSTMENT AND AIMING OF CAMERAS OVER A PERIOD OF 2 HOURS TO ACHIEVE FINAL SET-UP. THIS WORK WILL BE CARRIED OUT UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE CLIENTS REPRESENTATIVE.

THE ADJUSTING AND AIMING OF THE CCTV INSTALLATION WILL INCLUDE THE FOLLOWING:

- FOCUSING.
- ADJUSTING MOUNTINGS AND BRACKETS.
- AIMING OF CAMERAS.
- TESTING ALL OPERATIONS OF THE CCTV SYSTEM.

ALLOW TO ATTEND SITE TWICE DURING THE DEFECTS AND LIABILITY PERIOD AND UNDERTAKE THE ABOVE ADJUSTMENTS TO AND REPROGRAM AS DIRECTED BY THE CLIENTS REPRESENTATIVE OF THE CCTV SYSTEM.

11. SECURITY.

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW INTRUDER DETECTION / ACCESS CONTROL SYSTEM EQUAL TO INNER RANGE INTEGRITI.

CONFIGURE THE SECURITY SYSTEM TO OPERATE AS DIRECTED BY THE SCHOOL. PROVIDE FACILITY WITHIN THE SCHOOLS MAIN OFFICE TO ALLOW MANAGEMENT STAFF TO ENCODE AND MANAGE PROXIMITY TAGS.

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- CONTROLLERS, EXPANSION PANELS, HOUSINGS AND POWER SUPPLIES.
- REMOTE MONITORING VIA A CABLED INTERNET CONNECTION AND A CELLULAR CONNECTION.
- INTRUDER DETECTORS.
- REED SWITCHES.
- ARMING / DISARMING KEY PANEL.
- PIZEO SIRENS.
- SATELLITE STROBE.
- CARD READERS.
- 50 PROXIMITY TAGS.
- EXIT PUSH BUTTONS.
- ELECTRIC STRIKES.
- SOFTWARE AND ALL NECESSARY LICENCES.
- PROXIMITY TAG ENCODING FACILITY.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

THE SECURITY SYSTEM IS TO BE UNDERTAKEN BY A SPECIALIST SECURITY CONTRACTOR THAT IS FAMILIAR WITH AND EXPERIENCED IN INSTALLING AND COMMISSIONING THE PROPOSED EQUIPMENT.

ENSURE ALL SECURITY SYSTEM WORK IS COMPLETED BY A CURRENT MEMBER ASIAL WHO HOLDS THE APPROPRIATE SECURITY EQUIPMENT INSTALLER LICENCE. PROVIDE A COPY OF THE ASIAL MEMBERSHIP AND SECURITY EQUIPMENT INSTALLER LICENCE OF EACH STAFF MEMBER WORKING ON THE SECURITY SYSTEM INSTALLATION COMPONENT OF THE PROJECT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. INCLUDE A COPY OF SUCH LICENSES IN THE OPERATIONS AND MAINTENANCE MANUAL.

12. ABBREVIATIONS

- A - 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.
- MCB - MINIATURE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- MSSB - MECHANICAL SERVICES SWITCHBOARD.
- MW - MICROWAVE.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER.
- SUS - MOUNT SUSPENDED FROM CEILING.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

<div>ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793</div> <div>TRADING AS: ELECTRICAL DESIGN GROUP</div>		<div>THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.</div> <div>USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.</div> <div>ALL DIMENSIONS TO BE VERIFIED ONSITE.</div>		<div><div><div></div><div>ELECTRICAL DESIGN GROUP</div></div><div>ELECTRICAL BUILDING SERVICES CONSULTANTS</div><div>BRISBANE GOLD COAST</div><div>P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au</div></div>		<div>PROJECT: FLEXIBLE LEARNING CENTRE, MT ISA COVERED AREA</div> <div>74 ABEL SMITH PARADE, MOUNT ISA CITY</div>			<div>DRAWING: ELECTRICAL SERVICES NOTES</div> <div>SCALE: NOT TO SCALE AT A1</div> <div><div>PROJECT NO: C3423a</div><div>DRAWING NO: E02</div><div>REVISION: B</div></div>		
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