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. - COMMUNICATIONS CABLING.
- SECURITY.
- RECONNECTION OF EXISTING CIRCUITS.
- MECHANICAL AND HYDRAULIC SERVICES CIRCUITS.

- 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.

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.

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.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR 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 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.
- AS2293. - 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.

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TRADING AS:	USE FIGURED DIMENSIONS	
ELECTRICAL DESIGN GROUP	IN PREFERENCE TO SCALE.	
	ALL DIMENSIONS TO BE VERIFIED ONSITE.	

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES REPLACING THE EXISTING INTERNAL SWITCHBOARDS WITH A NEW DISTRIBUTION BOARD DB-A. THE EXISTING MAIN SWITCHBOARD IS TO REMAIN AS IS. THE EXISTING SUPPLY TO THE CHURCH IS TO BE MODIFIED AS NECESSARY AND REINSTATED.

IN ADDITION TO THE CIRCUITS DETAILED WITHIN THESE DOCUMENTS ALLOW FOR ALL NEW CIRCUITS AND CONTROLS TO SUPPLY ALL OF THE EXISTING SERVICES THAT REMAINS.

- THE FOLLOWING EXTENT OF WORK:
- POWER DISTRIBUTION.
- NEW DISTRIBUTION BOARD DB-A. - CABLE ACCESS WAYS. CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

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

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.
- EMERGENCY AND EXIT LIGHTING. - EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- AND CONTROLS.

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 I TO "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.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO

- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.

– RECONNECTION OF THE EXISTING LIGHTING THAT REMAINS INCLUDING ALL NEW SWITCHGEAR REMOVAL OF ALL EXISTING REDUNDANT LIGHTING SERVICES.

NOTES

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE RELOCATION OF THE NBN NTU INCLUDING THE EXTENSION OF THE NBN LEAD-IN SERVICE. UTILISE THE EXISTING COMMUNICATIONS RACK AS CR-A WITH ALL NEW CAT 6 PATCH PANELS.

PROVIDE FOUR CAT 6 TIE CABLES FROM THE NBN NTD TO THE FIRST PORTS ON THE PATCH PANEL IN CR-A.

PROVIDE THE COMMUNICATIONS CABLING AS COMMSSCOPE CAT 6 UTP WITH A MANUFACTURERS PERFORMANCE WARRANTY.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK: - RELOCATION OF THE NBN NTU AND RELOCATION / EXTENSION OF THE NBN LEADIN SERVICE.

- ARRANGE NEW NBN SERVICE. - NBN NTU TO CR-A TIE CABLES.
- COMMUNICATIONS RACK CR-A.
- PATCH PANELS AS NECESSARY - CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CABLE ACCESS WAYS. - TESTING AND COMMISSIONING.
- MANUFACTURERS WARRANTY.

- REMOVAL OF ALL EXISTING COMMUNICATIONS SERVICES MADE REDUNDANT BY THE WORKS. 9. SECURITY

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW REMOTELY MONITORED INNER RANGE INTEGRITY SYSTEM PROVIDING INTRUDER DETECTION AND ACCESS CONTROL TO THE EXTERNAL DOORS WITH A HIGH-LEVEL INTERFACE TO A SALTO SYSTEM VIA INTEGRITI INTEGRATED SOLUTIONS SOFTWARE.

THE SALTO HARDWARE WILL BE PROVIDED AS PART OF THE DOOR HARDWARE. PROVIDE CABLING AND THE NECESSARY INTERFACES TO ALLOW THE SALTO 485 HUBS TO BE INSTALLED AND CONNECTED TO THE INNER RANGE INTEGRITY SYSTEM.

PROVIDE ALL NECESSARY LICENCES TO FACILITATE THE OPERATION OF THE ACCESS CONTROL AND SALTO SYSTEMS.

PROVIDE A NEW REMOTELY MONITORED INNER RANGE INTRUDER DETECTION SYSTEM. -REMOTE MONITORING.

- INNER RANGE SECURITY SYSTEM. - REMOTE MONITORING.
- SOFTWARE.
- SALTO INTERFACES.
- SALTO 485 CABLING. CARD READERS.
- 50 PROXIMITY CARDS.
- MAGNETIC HOLDERS.
- ELECTRIC STRIKES. - PUSH BUTTONS.
- POWER SUPPLIES.
- ARMING / DISARMING KEY PANEL.
- INTRUDER DETECTION SENSORS. - SATELLITE SIREN STROBE.
- PIZEO SIREN.
- CABLING.
- TESTING AND COMMISSIONING. - REMOVAL OF ALL EXISTING SECURITY SERVICES.

10. ABBREVIATIONS

- AMP CURRENT RATING
- MOUNT ABOVE BENCH. AB
- AFFL ABOVE FINISHED FLOOR LEVEL. MOUNT BELOW BENCH BB
- BH MOUNT ON BULKHEAD.
- CEIL MOUNT ON CEILING. CS - MOUNT WITHIN CEILING SPACE.
- C/W COMPLETE WITH.
- DW DISHWASHER.
- MCB MINIATURE CIRCUIT BREAKER.
- MSB MAIN SWITCHBOARD. MSSB - MECHANICAL SERVICES SWITCHBOARD.
- MW MICROWAVE.
- N NEON / LED INDICATOR WHEN ON NBN NATIONAL BROADBAND NETWORK.
- NTD NBN NETWORK TERMINATION DEVICE.
- NTS NOT TO SCALE
- PCD NBN PREMISES CONNECTION DEVICE. RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE
- INTEGRAL TO THE CIRCUIT BREAKER. 3-PHASE RCBO TO BE 4-POLE.
- REF REFRIGERATOR. SUS - MOUNT SUSPENDED FROM CEILING.
- UNO UNLESS NOTED OTHERWISE.
- WP WEATHERPROOF TO IP56 UNO. 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

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