

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.  
- INSPECTIONS.  
- TESTING AND COMMISSIONING.  
- MAINTENANCE.  
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.  
- POWER DISTRIBUTION.  
- LIGHTING.  
- MODIFICATION, RELOCATION AND EXTENSION AS NECESSARY OF ALL EXISTING SERVICES THAT ARE IMPACTED BY THE WORKS OR REQUIRED TO BE EXTENDED BY THE WORKS.  
- REMOVAL OF ALL EXISTING SERVICES MADE REDUNDANT BY THE WORKS.  
- DOCUMENTS.  
- ANY TEMPORARY WORKS REQUIRED TO KEEP THE HOTEL OPERATING DURING THE CONSTRUCTION PROCESS AND ACCOMMODATE STAGING OF THE WORKS TO REFLECT THE EXECUTION OF THE MAIN CONTRACT WORKS.  
- 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 OF ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REFER TO THE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE ELECTRICAL WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE AND THE SERVICES COVERED BY THE ACMA IS PERFORMED BY THE HOLDER OF THE APPROPRIATE CURRENT ACMA 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.

MODIFICATION, RELOCATION AND EXTENSION AS NECESSARY OF ALL EXISTING SERVICES THAT ARE IMPACTED BY THE WORKS OR REQUIRED TO BE EXTENDED BY THE WORKS.

PROVIDE ALL TEMPORARY WORKS REQUIRED TO KEEP THE VENUE AND ALL CONSTRUCTION STAGES OPERATING INCLUDING STAGED COMMISSIONING DURING THE CONSTRUCTION PROCESS.

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.

CORRUGATED CONDUITS MUST NOT BE USED WITHIN ANY FOOD OR DRINK PREPARATION OR SERVERY AREAS.

CABLE JOINS ARE NOT ACCEPTABLE. ALL CABLING, WIRING, CONDUCTORS AND CONDUITS MUST BE CONCEALED. ALL EXISTING ELECTRICAL SERVICES INCLUDING CABLING AND SWITCHGEAR THAT IS FOUND TO BE REDUNDANT OR MADE REDUNDANT BY THE WORKS MUST BE REMOVED.

IT IS ACCEPTABLE TO USE EXISTING SWITCHGEAR, OUTLETS AND CABLING IF THEY ARE APPROPRIATELY RATED AND THE ELECTRICIAN ACCEPTS RESPONSIBILITY OVER THE SWITCHGEAR / OUTLETS / CABLE AND PROVIDES A WARRANTY OVER IT AS IF IT WAS INSTALLED NEW BY THE ELECTRICIAN.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTORS 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.

NOTES

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 EMERGENCY SERVICES.

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 2.5mm<sup>2</sup> 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.

6. POWER DISTRIBUTION

REPLACE THE EXISTING MAIN SWITCHBOARD. PROVIDE NEW DISTRIBUTION BOARDS DB-E AND DB-G WITH NEW SUBMAINS FROM THE NEW MSB. THE EXISTING DYNALITE LIGHTING CONTROL SYSTEM LOCATED WITHIN THE CEILING SPACE IS TO BE RELOCATED INTO AN AS3000 COMPLIANT POSITION AND BE INTERFACED TO THE NEW DYNALITE CONTROL SYSTEM.

THE EXISTING MECHANICAL SERVICES CIRCUITS ARE TO BE RETAINED.

ALL OF THE EXISTING SWITCHBOARDS, CIRCUITS, CABLING AND OUTLETS THAT BECOME REDUNDANT ARE TO BE REMOVED. THE EXISTING CIRCUITS THAT REMAIN WITHIN THE AREA OF WORKS ARE TO BE RECONNECTED TO THE SWITCHBOARDS WITH NEW SWITCHGEAR AND CONTROLS. ANY INTERRUPTION TO THE POWER SUPPLY TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE HOTELS OPERATING HOURS AND MUST BE ADVISED TO THE OPERATOR IN WRITING AT LEAST ONE WEEK PRIOR.

ALL SWITCHBOARDS AND SWITCHGEAR ARE TO BE SCHNEIDER OR NHP AND CONTAIN AT LEAST 25% OR 12 SPARE POLES (WHICHEVER IS THE LARGER) AT PRACTICAL COMPLETION. ALL SWITCHBOARDS ARE TO BE LIGHT GREY. ORANGE SWITCHBOARDS ARE NOT ACCEPTABLE. EXTERNAL SWITCHBOARDS MUST BE 316 STAINLESS STEEL OR ALUMINIUM. PROVIDE 92268 KEY LOCKABLE DOORS ON ALL SWITCHBOARDS. ALL SWITCHBOARDS AND CIRCUITS MUST BE UNIQUELY NAMED WITH SWITCHBOARDS PROVIDED WITH A LABEL CONTAINING:  
- SOURCE NAME.  
- SOURCE OVERLOAD RATING IN AMPS.  
- SUBMAIN CABLE TYPE, SIZE, CONFIGURATION AND LENGTH.

ALL REMOVABLE PANELS AND ESCUTCHEONS MUST BE SECURED VIA 1/4 TURN LATCHES THAT REMAIN PART OF THE PANEL / ESCUTCHEON. IT IS NOT ACCEPTABLE TO SECURE REMOVABLE PANELS AND ESCUTCHEONS BY BOLTS, NUTS OR SCREWS.

ALL CIRCUIT BREAKERS AND CIRCUIT SCHEDULES MUST BE LABELLED / CONTAIN THE SUBMAIN / CIRCUIT USE AND LOCATION SUCH THAT THE CONNECTION / OUTLET CAN BE SIMPLY IDENTIFIED.

OUTLETS ARE TO BE PROVIDED WITH A NEAT HAND WRITTEN CIRCUIT DESIGNATION BY INDELIBLE INK ON THE FACEPLATE SUCH THAT IT IS NOT VISIBLE WHEN THE COVER IS CONCEALED.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:  
- POWER DISTRIBUTION  
- REPLACE THE EXISTING MAIN SWITCHBOARD.  
- NEW SWITCHBOARDS, SUBMAINS AND CIRCUIT BREAKERS.  
- CABLE ACCESS WAYS.  
- CIRCUITS.  
- ISOLATORS AND OUTLETS.  
- TESTING AND COMMISSIONING.  
- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.  
- RECONNECTION OF ALL EXISTING SERVICES THAT REMAIN.

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

PROVIDE THE NEW MAIN SWITCHBOARD AS FOLLOWS:

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED MECHANICALLY FIXED TO THE EXISTING SUPPORT.  
- OEM COMPLIANT RETAIL METERING.  
- 92268 KEY LOCKABLE IP66 (316 STAINLESS STEEL OR ALUMINIUM) POWDER COATED COLOURBOND SURF MIST.  
- IP56.  
- ENSURE THE MSB IS DESIGNED TO OPERATE IN DIRECT SUNLIGHT WITH AN AMBIENT TEMPERATURE OF 40 DEGREES.  
- WHITE ESCUTCHEON.  
- BOTTOM ENTRY CABLE ACCESS ONLY.  
- SUN / RAIN HOOD.  
- DOORS ON ALL CUBICLES WITH 3 POINT 92268 KEY LOCKABLE HANDLES OTHER THAN THE METER CUBICAL DOOR WHICH IS TO HAVE AN ENERGEX PADLOCK.  
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.  
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.  
- ALL SWITCHGEAR TO BE NHP/TERASAKI.  
- PROVIDE SHOP DRAWINGS FOR APPROVAL.  
- ENERGEX PADLOCK ON THE METER CUBICAL.  
- TWO ENERGEX PADLOCK KEYS AND TWO 92268 KEYS.  
- PROVIDE SHOP DRAWINGS FOR APPROVAL.  
- OBTAIN APPROVAL FROM ENERGEX OF THE NEW MSB SHOP DRAWINGS.  
- PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE MSB.

PROVIDE DISTRIBUTION BOARDS DB-E AND DB-G AS FOLLOWS:  
- WALL MOUNTED.  
- EACH CUBICAL IS TO HAVE A MINIMUM WIDTH OF 600MM.  
- IP44 FORM 1.  
- 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.  
- 25% SPARE POLES AT PRACTICAL COMPLETION.  
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

ENSURE ALL THREE PHASE CIRCUITS ARE PROVIDED WITH CORRECT PHASE ROTATION.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT. THE FINAL POSITION OF ALL OUTLETS AND ISOLATORS ARE TO BE CONFIRMED ON SITE BY THE TENANTS REPRESENTATIVE.

NOTES

7. LIGHTING

ALL FRONT OF HOUSE LIGHTING IS TO BE 2,700K OR 3,000K AND THE BACK OF HOUSE LIGHTING IS TO BE 4,000K.

UNLESS A FITTING HAS BEEN SPECIFIED IN THE EQUIPMENT SCHEDULE THAT CONTAINS A MAIN VOLTAGE LAMP, ALL LIGHT FITTINGS MUST BE PROVIDED AS SOLID-STATE LED WITH A FIVE-YEAR MANUFACTURERS REPLACEMENT WARRANTY AND A MINIMUM TWO YEAR MANUFACTURERS REPLACEMENT AND LABOUR WARRANTY.

ALL FRONT OF HOUSE LIGHTS THAT DO NOT CONTAIN A MAIN VOLTAGE LAMP ARE TO BE DALI DIMMABLE.

REMOTE DRIVERS ARE TO BE USED IF POSSIBLE AND LOCATED IN A CONCEALED ACCESSIBLE POSITION, IF THE DRIVER CAN NOT BE REACHED FROM THE FITTING ITS POSITION MUST BE NOTED ON THE AS CONSTRUCTED DOCUMENTS.

ALL FRONT OF HOUSE LIGHTS THAT CONTAIN MAIN VOLTAGE LAMPS ARE TO BE PROVIDED WITH THE LOWEST OUTPUT PRACTICAL TO ACHIEVE THE REQUIRED ILLUMINATION / EFFECT AND BE TRAILING EDGE PHASE DIMMABLE.

ALL ILLUMINATED SIGNAGE, GAMING BASE FOOTREST LEDS, CARPARK LIGHTS, AND EXTERNAL SECURITY LIGHTS NOT CONSIDERED FRONT OF HOUSE ARE TO BE SWITCHED.

ALL LIGHTING CIRCUITS MUST BE PROTECTED BY A 20 AMP RCBO WITH THE AVERAGE NUMBER OF FITTINGS / DRIVERS SUPPLIED FROM A SINGLE CIRCUIT NOT EXCEEDING 25 WITH THE MAXIMUM NOT EXCEEDING 30.

PROVIDE A PHILIPS DYNALITE LIGHTING CONTROL SYSTEM TO CONTROL THE LIGHTING CONFIGURED WITH THE FOLLOWING SCENES:

INTERNAL

- CLEANING – MANUAL OPERATION. 100% LIGHTS ON AND SIGNS OFF.  
- DAY – AUTOMATIC OPERATION FROM 10.00 AM TO 3.30 PM.  
- AFTERNOON – AUTOMATIC OPERATION FROM 3.30 PM TO DUSK.  
- EVENING – AUTOMATIC OPERATION FROM DUSK TO 8.30 PM.  
- NIGHT – AUTOMATIC OPERATION FROM 8.30 PM TO CLOSING.  
- CLOSED – MANUAL OPERATION. 100% ON FOR 15 MINUTES THEN TO A SECURITY MODE.

EXTERNAL

- DAY – AUTOMATICALLY OFF FROM DAWN TO DUSK.  
- NIGHT – AUTOMATICALLY ON FROM DUST UNTIL 15 MINUTES PAST CLOSING.  
- CLOSED – MANUAL OPERATION. NIGHT MODE FOR 15 MINUTES THEN TO A SECURITY MODE.

SET THE ILLUMINATION LEVELS IN CONSULTATION WITH THE VENUE MANAGER AND OBTAIN WRITTEN APPROVAL FROM THE VENUE MANAGER OF THEIR ACCEPTANCE OF THE ILLUMINATION SCENE LEVELS FOR EACH STAGED HANDOVER AND SUBMIT A COPY OF THE APPROVAL TO THE ARCHITECT.

PROVIDE PHILIPS DYNALITE PROGRAMMABLE SWITCH PANELS PE SENSORS AND TIME CLOCKS AS NECESSARY. EACH FUNCTIONAL AREA IS TO BE PROVIDED WITH A SWITCHPANEL IN A NON-CUSTOMER ACCESSIBLE POSITION WITH THE ABILITY TO MANUALLY INSTIGATE THE ABOVE SCENES.

DIN RAIL MOUNT THE PHILIPS DYNALITE CONTROL EQUIPMENT WITHIN THE ASSOCIATED SWITCHBOARD.

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.  
- PHILIPS DYNALITE LIGHTING CONTROL SYSTEM.  
- LIGHTING SUBCIRCUITS.  
- TESTING AND COMMISSIONING.  
- RECONNECTION OF THE EXISTING LIGHTING THAT REMAINS.  
- REMOVAL OF ALL EXISTING REDUNDANT LIGHTING SERVICES INCLUDING THE REDUNDANT LIGHTING CONTROL SYSTEM.

COMMISSION THE LIGHTING CONTROL AT PRACTICAL COMPLETION AND AGAIN THREE TIMES DURING THE DEFECTS AND LIABILITY PERIOD TO THE SATISFACTION OF THE OPERATOR.

DALI TO PHASE DIMMING CONVERTERS ARE NOT ACCEPTABLE.

8. DOCUMENTATION

WITHIN TWO WEEKS OF PRACTICAL COMPLETION PROVIDE THE FOLLOWING DOCUMENTATION.

AS CONSTRUCTED DRAWINGS INCLUDING:  
- ELECTRICIANS NAME AND CONTACT DETAILS.  
- PROJECT NAME, ADDRESS AND DATE OF PRACTICAL COMPLETION.  
- FITTING POSITIONS AND TYPES CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.  
- OUTLET, SWITCH, AND CONNECTION POSITIONS CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.  
- REMOTE DRIVER LOCATIONS.  
- CIRCUITS CROSS REFERENCED TO A DISTRIBUTION BOARD SCHEDULE.  
- LIGHTING CONTROL CHANNELS CROSS REFERENCED TO A LIGHTING CONTROL SCHEDULE.  
- POWER SCHEMATIC.  
- SWITCHBOARD SHOP DRAWINGS.  
- CABLE ACCESS ROUTES.

A FITTING / EQUIPMENT SCHEDULE INCLUDING:  
- FITTING DETAILS INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.  
- OUTLETS AND SWITCHES INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

DISTRIBUTION BOARD SCHEDULES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

LIGHTING CONTROL SCHEDULE CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

PHOTOS OF EACH SWITCHBOARD INCLUDING:  
- CLOSED POSITION SUCH THAT THE SWITCHBOARD DESIGNATION AND CLEARANCE IS VISIBLE.  
- THE SUBMAIN LABEL.  
- DOOR'S OPEN ESCUTCHEON/S CLOSED SUCH THAT THE SPARE CAPACITY AND LABELLING IS VISIBLE.  
- DOOR'S OPEN ESCUTCHEON/S REMOVED SUCH THAT THE SWITCHGEAR AND INTERNAL CABLING IS VISIBLE.

NOTES

9. EMERGENCY AND EXIT LIGHTING

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.

10. GAMING

THE GAMING ELECTRICIAN WILL BE ENGAGED DIRECTLY BY ENDEAVOUR GROUP TO UNDERTAKE THE FOLLOWING:  
- COMMUNICATIONS CABLING.  
- CIRCUITS FROM GAMING DISTRIBUTION BOARD DB-2 VIA THE LIGHTING CONTROL SYSTEM AS NECESSARY TO:  
- GAMING MACHINES.  
- GAMING MODEMS.  
- GAMING MACHINE SIGNAGE.  
- GAMING ROOM CRTS.  
- GAMING ROOM CABLE ACCESS EXCLUDING FLOOR CHASES AND REINSTATEMENT OF THE FLOOR CHASES.

THE BUILDING WORKS ELECTRICAL SUB CONTRACT INCLUDES THE DISTRIBUTION BOARD DB-2 SWITCHGEAR AS DETAILED IN THE DB-2 SCHEDULE AND LIGHTING CONTROL CHANNELS AS DETAILED IN THE LIGHTING CONTROL SCHEDULE FOR THE GAMING ELECTRICIAN TO USE.

ALL OTHER REMAINING ELECTRICAL SERVICES WITHIN THE GAMING ROOM ARE TO BE PROVIDED AS PART OF THE BUILDING WORKS ELECTRICAL SUB CONTRACT.

11. TAB

THE GAMING ELECTRICIAN WILL BE ENGAGED DIRECTLY BY ENDEAVOUR GROUP TO UNDERTAKE THE FOLLOWING:  
- COMMUNICATIONS CABLING.  
- CIRCUITS FROM DISTRIBUTION BOARD DB-3 TO:  
- TAB UNITS.  
- TAB TELEVISIONS.

THE BUILDING WORKS ELECTRICAL SUB CONTRACT INCLUDES THE DISTRIBUTION BOARD DB-3 SWITCHGEAR AS DETAILED IN THE DB-3 SCHEDULE FOR THE GAMING ELECTRICIAN TO USE.

ALL OTHER REMAINING ELECTRICAL SERVICES WITHIN THE TAB ROOM ARE TO BE PROVIDED AS PART OF THE BUILDING WORKS ELECTRICAL SUB CONTRACT.

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.  
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.  
QDC – QUEENSLAND DEVELOPMENT CODE.  
RCBO – CIRCUIT BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.  
RCD – CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.  
REF – REFRIGERATOR.  
UNO – UNLESS NOTED OTHERWISE.  
WP – WEATHERPROOF TO IP56 UNO.  
500 – NUMBER DENOTES MOUNTING HEIGHT AFFL.

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USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		
ALL DIMENSIONS TO BE VERIFIED ONSITE.		

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<div><div><div><div><div><div>BRISBANE:</div></div></div><div><div><div>PTY LTD ACN 092 710 793</div></div></div></div><div><div><div>P.O. Box 15 Sherwood Qld 4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au</div></div></div></div></div>		
<div><div><div><div><div><div>ELECTRICAL DESIGN GROUP BRISBANE</div></div></div><div><div><div>PTD LTD ACN 092 710 793</div></div></div></div><div><div><div>TRADING AS: ELECTRICAL DESIGN GROUP</div></div></div></div></div>		
PROJECT:		
SITE ADDRESS:		
32 BOWMAN ROAD, CALOUNDRA QUEENSLAND		
SCALE:		
NOT TO SCALE		
DRAWING TITLE:		
ELECTRICAL SERVICES NOTES		
PROJECT NO:		
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