






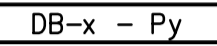







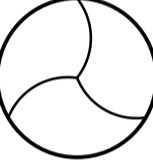



LEGEND

	ELECTRICAL SERVICES SWITCHBOARD.
	SINGLE POWER OUTLET.
	SINGLE PHASE ISOLATOR.
	ONE-WAY DALI DIMMED MANUAL LIGHT SWITCH.
	LIGHTING CONTROL STATION. REFER TO DETAIL ON DRAWING E03.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	ELECTRICAL EQUIPMENT AS NOTED.
	CAT 6 COMMUNICATIONS OUTLET.
	SPEAKER CABLE.
	AUDIO EQUIPMENT.
	E1: RECESSED NON-MAINTAINED EMERGENCY LIGHT.
	L1: SURFACE ADJUSTABLE DALI DIMMABLE DOWNLIGHT.
	L2: SURFACE ADJUSTABLE DOWNLIGHT.
	CEILING FAN. 2400 DIA CEILING FAN C/W RIGID SUSPENSION KIT. SUSPEND SUCH THAT THE BOTTOM OF THE FAN IS AT 3400mm AFFL. COLOUR: WHITE / SILVER. TYPE: BIG ASS ESSENCE 2400.
	FAN SPEED CONTROLLER (FC). FAN SPEED CONTROLLER TO CONTROL THE FANS INDICATED. CONNECT THE CONTROLLER TO THE FAN AS PER THE FAN MANUFACTURERS INSTRUCTIONS. COLOUR: WHITE. TYPE: BIG ASS ESSENCE CONTROLLER

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.
 - LIGHTING.
 - 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.

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-ORIENTED 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.

PRIOR TO PRACTICAL COMPLETION CERTIFY THE INSTALLATION ON A FORM 16 AS COMPLYING WITH THE RELEVANT CODES AND STANDARDS.

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.

NOTES

5. CIRCUITS

UPGRADE THE EXISTING DISTRIBUTION BOARD DB-K AS NECESSARY TO ACCOMMODATE THE ADDITIONAL CIRCUITS.

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. JOINS IN CABLES ARE NOT ACCEPTABLE.

6. LIGHTING

PROVIDE THE L1 FITTINGS AS 45W 3000K LED SURFACE MOUNTED 47 DEG BEAM CAN DOWNLIGHTS C/W REMOTE DALI DIMMABLE DRIVER TYPE: GAMMA ILLUMINATION ORBUS 1487-WFL-3K.

PROVIDE THE L2 FITTINGS AS 45W 3000K LED SURFACE MOUNTED 47 DEG BEAM CAN DOWNLIGHTS C/W REMOTE DRIVER TYPE: GAMMA ILLUMINATION ORBUS 1487-WFL-3K.

PROVIDE THE LIGHTING CONTROL SWITCHES AS SMARTSCAPE DALI RD20 MANUAL DALI POT DIMMER SWITCHES C/W INTEGRAL 20 DALI DEVICE POWER SUPPLY MOUNTED AT 1000mm AFFL WITH THE POSITIONS CONFIRMED ON SITE BY THE SCHOOL. FACTORY SET POWER ON RETURN TO LAST LEVEL.

PROVIDE THE RECESSED NON-MAINTAINED EMERGENCY LIGHT AS A WHITE CLEVERTRONICS LLIFE AS2293 CLASSIFICATION CO-D40 C90-D40. INSTALL IN ACCORDANCE WITH AS2293.

7. COMMUNICATIONS

THE COMMUNICATIONS CABLING IS TO INCLUDE CAT 6 OUTLETS CABLED BACK TO THE LOCAL COMMUNICATIONS RACK. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NEW COMMUNICATIONS OUTLETS AS REQUIRED.
- PATCH PANEL MODIFICATIONS WITHIN THE COMMUNICATIONS RACK TO ACCOMMODATE THE CHANGES.
- CAT 6 CABLING.

8. ELECTRONIC SECURITY

CHRIS MCFARLANE OF MCFARLANE SECURITY SPECIALIST 0459 112 706 mcfarlanesecspec@gmail.com IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACTOR TO UNDERTAKE ALL WORKS ASSOCIATED WITH THE SECURITY SERVICES INCLUDING CCTV THE INTRUDER DETECTION AND ACCESS CONTROL.

9. SPEAKER CABLING

TAKE POSSESSION OF THE SPEAKER CABLING FROM THE AUDIO CONTRACTOR AND INSTALL IT FROM THE AUDIO EQUIPMENT LOCATION WITHIN THE BUILDING TO THE SPEAKERS.

THE SPEAKER CABLING IS TO BE RUN CONCEALED AND LOOP IN / LOOP OUT AT EACH SC LOCATION WITH SUFFICIENT LENGTH TO ALLOW THE AUDIO CONTRACTOR TO CONNECT THE SPEAKERS.

CONFIRM THE POSITION OF THE SPEAKERS ON SITE WITH THE AUDIO CONTRACTOR.

10. 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.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- RCD - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 2100 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

A	TENDER	07/12/2023
REV:	DESCRIPTION:	DATE:
DRAWING:		
ELECTRICAL SERVICES		
LEGEND & NOTES		
SCALE:	PROJECT NO:	DRAWING NO:
NOT TO SCALE AT A1	C3164a	E01
		REVISION:
		A

ELECTRICAL DESIGN GROUP BRISBANE
PTY LTD
ACN 092 710 793

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