

















## LEGEND

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK <a href="http://www.edg.net.au/Links/Lighting.htm">www.edg.net.au/Links/Lighting.htm</a>		
TYPE	DESCRIPTION	
PCD 	PCD	NBN PREMISES CONNECTION DEVICE IN ACCORDANCE WITH THE NBN REQUIREMENTS
NTD 	NTD	NBN NETWORK TERMINATION DEVICE IN ACCORDANCE WITH THE NBN REQUIREMENTS
DB-x 	DB-1 TO DB-22	WALL MOUNTED AT 1,200 AFFL UNIT PLASTIC 9 POLE DISTRIBUTION BOARD (ONE PER UNIT) REFER TO THE UNIT DB SCHEMATIC FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
DB-C 	DB-C	COMMON AREA DISTRIBUTION BOARD DB-C CONTAINED WITHIN THE MAIN SWITCHBOARD REFER TO THE SCHEMATIC FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ALL COMMUNAL LIGHTING AND POWER IS TO BE CONTROLLED BY A SINGLE SWITCH (ON, OFF, AUTO) LOCATED ON THE DB-C ESCUTCHEON THAT OVERRIDES THE TIME SWITCH AND PHOTOELECTRIC SWITCH. PROVIDE DB-C WITH AN INTERNAL DIN RAIL TO MOUNT THE TIME CLOCK. PROVIDE DB-C WITH 4 SPARE POLES.
MSB 	MSB	MAIN SWITCHBOARD INCORPORATING DB-C REFER TO THE SCHEMATIC FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE THE MSB WITH HASP AND STAPLE TO ALLOW LOCKS TO BE FITTED. THE MSB IS TO BE IP56 AND BE POWDERCOATED STORM GREY.
	KWH	SUPPLY AUTHORITY DIRECT CONNECTED PRINCIPLE AND CONTROLLED SUPPLY METER IN ACCORDANCE WITH THE QUEENSLAND ELECTRICITY CONNECTION AND METERING MANUAL.
	ARF	SUPPLY AUTHORITY DIRECT CONNECTED MULTI SWITCH AF RECEIVER IN ACCORDANCE WITH THE QUEENSLAND ELECTRICITY CONNECTION AND METERING MANUAL.
	PE SWITCH	ENSURE THE PE SWITCH CONTROLLING THE COMMON EXTERNAL LIGHTS IS SUITABLE FOR CONNECTION TO SINGLE PHASE SUPPLY, CONTAINS INBUILT SURGE PROTECTION FROM LIGHTNING, IS SUITABLE FOR INSTALLATION IN LOCATIONS EXPOSED TO THE WEATHER, HAS AN INBUILT TIME DELAY OPERATION AND IS CONSTRUCTED OF UV STABILIZED MATERIAL.
	TIME CLOCK	ENSURE THE TIME CLOCK CONTROLLING THE COMMON EXTERNAL LIGHTS IS OF THE ANALOGUE/ELECTROMECHANICAL TYPE WITH QUARTZ MOVEMENT, 24-HOUR PROGRAM, IS PROGRAMMABLE BY CAPTIVE SEGMENTS AND HAS AN INTERNAL RESERVE SYSTEM PROVIDING A MINIMUM SUPPLY FAILURE RESERVE OF 150 HOURS. THE TIME CLOCK IS TO HAVE A MINIMUM SWITCHING TIME OF 15 MINUTES, INCORPORATE A MANUAL OVERRIDE AND BE DIN RAIL MOUNTED IN DB-C.
	CONTACTOR	CONTACTOR
	TELSTRA PIT	EXISTING TELSTRA PIT
PIT 1 	PIT 1	600 X 600 X 700 DEEP PVC POWER PIT C/W CLASS C INLAY.
PIT 2 	PIT2	450 X 450 X 700 DEEP PVC POWER PIT C/W CLASS C INLAY.
L1 	L1	WALL LIGHT. GAMMA ILLUMINATION ZELDA, 1214-4K. WALL MOUNTED AT 2650 AFFL, 8W ONE-WAY DOWNWARD DIRECTION.
L2 	L2	WALL LIGHT. GAMMA ILLUMINATION ZELDA, 1215-4K. FENCE WALL MOUNTED AT LOW LEVEL, 2 x 6W TWO-WAY UP / DOWN DIRECTION.
WP 	WP DOUBLE POWER OUTLET	IP54 WEATHERPROOF DOUBLE POWER OUTLET C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL. RATING 10A. TYPE: CLIPAL WSCF227F.

## NOTES

### 1.0 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.
- MATV SYSTEM.
- SMOKE ALARMS.
- 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.

### 2.0 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 CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTORS 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 ON SITE 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.

### 3.0 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.
- AS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

### 4.0 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.
- NBN CO REQUIREMENTS.

### 5.0 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 RCD COMBINATION CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

## NOTES

### 6.0 POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW ENERGEX UNDERGROUND SERVICE. THE CONSUMERS MAINS ARE TO RUN UNDERGROUND TO THE MAIN SWITCHBOARD. MAIN SWITCHBOARD IS TO CONTAIN INDIVIDUAL ENERGEX METERING FOR EACH UNIT AND A COMMUNITY METER. THE HOT WATER WITHIN EACH UNIT IS TO BE SEPARATELY METERED ON AN OFF PEAK TARIFF AT THE MAIN SWITCHBOARD. FROM THE MAIN SWITCHBOARD UNDERGROUND SUBMANS ARE TO BE RUN TO A DEDICATED DISTRIBUTION BOARD / LOAD CENTRE IN EACH UNIT TO THEN TURN SUPPLY THE UNITS CIRCUITS. THE MAIN SWITCHBOARD IS TO CONTAIN A COMMON AREA DISTRIBUTION BOARD DB-C TO SUPPLY THE COMMON AREA CIRCUITS. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- EARTHING.
- CONSUMERS MAINS.
- MAIN SWITCHBOARD.
- DISTRIBUTION BOARDS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

ARRANGE WITH ENERGEX TO HAVE THE POWER CONNECTED AND METERING INSTALLED.

### 7.0 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.
- LAMPS.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

### 8.0 COMMUNICATIONS

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF NBN SERVICES TO EACH UNIT AND CAT 6 UTP CABLING WITHIN THE UNIT. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NBN LEADIN CONDUIT.
- PIT AND CONDUIT SYSTEM.
- CAT 6 OUTLETS AND CABLING.
- TESTING AND COMMISSIONING.

ARRANGE WITH THE NBN TO HAVE THE NBN SERVICES CONNECTED TO THE UNITS.


### 9.0 MATV SYSTEM

PROVIDE A MATV SYSTEM INCORPORATING ANTENNAS ON EACH DWELLING TO PROVIDED ADEQUATE RECEPTION OF THE AVAILABLE FREE TO AIR CHANNELS. TO THE EXTENT POSSIBLE, ANTENNAS MUST BE LOCATED OUT OF SIGHT FROM THE STREET AND APPROPRIATELY FIXED FOR THE SITES DESIGN WIND SPEED. ALL MATV CABLING IS TO BE RUN AS RG6, RG11 QUAD SCREEN CABLE IN STAR CONFIGURATION. THE MATV SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING COMPONENTS AS REQUIRED AND EXTENT OF WORK:

- ANTENNAS.
- ANTENNA MOUNTING AND SUPPORT SYSTEM.
- DOWNLEADS.
- SPLITTERS AND TAPS.
- DISTRIBUTION CABLING.
- OUTLET.
- TESTING AND COMMISSIONING.

### 10.0 SMOKE ALARMS

PROVIDE OPTICAL PHOTOELECTRIC SMOKE ALARMS TO AS3786 C/W HARDWIRED MAINS POWER SUPPLY AND A TAMPER PROOF 10 YEAR LITHIUM BATTERY INTERCONNECTED WITHIN EACH UNIT AS INDICATED SUCH THAT ALL INTERCONNECTED ALARMS SOUND SIMULTANEOUSLY IN ACCORDANCE WITH THE QUEENSLAND FIRE AND EMERGENCY SERVICES (DOMESTIC SMOKE ALARMS) AMENDMENT ACT 2016.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793  TRADING AS: ELECTRICAL DESIGN GROUP	THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.  USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.  ALL DIMENSIONS TO BE VERIFIED ONSITE.	 <b>ELECTRICAL DESIGN GROUP</b> ELECTRICAL BUILDING SERVICES CONSULTANTS BRISBANE GOLD COAST  P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au	PROJECT: <b>60 LEXTON STREET, STRETTON</b>	B TENDER	08/08/2019
				REV: DESCRIPTION:	DATE:
DRAWING: <b>ELECTRICAL SERVICES LEGEND &amp; NOTES</b>				SCALE: NOT TO SCALE AT A1	PROJECT NO: <b>C1880a</b>
				DRAWING NO: <b>E01</b>	REVISION: <b>B</b>