

NOTES

DESERT ROSE HOUSE CONNECTED TO THE SDME SOLAR HAI GRID VIA 2x SINGLE CORE 16mm² CABLE FOR ACTIVE AND NEUTRAL ALONG WITH 6mm² EARTH CONDUCTOR.

FOR CONNECTION AND PROTECTION DETAILS REFER TO EL-301.

FOR ELECTRICAL LEGEND AND LOAD SCHEDULE REFER TO EL-002.

INCOMING BREAKER SIZE TO DESERT ROSE HOUSE IS 63 A.

SDME GRID CONNECTION BOX AT BACK OF LOT

40mm CONDUIT RUNNING UNDER SUB-FLOOR TO ELECTRICAL PLANT ROOM

LENGTH OF CABLE FROM ELECTRICAL PLANTROOM TO SDME GRID CONNECTION IS 18.3m

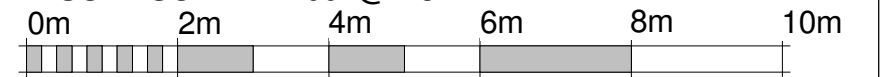
40mm CONDUIT INCLUDES DESERT ROSE ELECTRICAL SERVICE CABLES AND SDME MONITORING PANEL POWER CABLE

Grid Interconnection

1

1 : 100

VISUAL SCALE 1:100 @ A3



	Team: TEAM UOW Address: UNIVERSITY OF WOLLONGONG WOLLONGONG NSW, AUSTRALIA 2522	Client: Dubai Electricity and Water Authority 	AMENDMENTS				COPYRIGHT None; Project is Public		 NORTH	GRID CONNECTION			
	Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au		<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Updated to As-Built</td> <td>14/09/18</td> <td>BB</td> <td>CM</td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECK			1	Updated to As-Built	14/09/18
REV.	DESCRIPTION	DATE	DRAWN	CHECK									
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ELECTRICAL SCHEDULE			
DESCRIPTION	MAKE	MODEL	QTY
ELECTRICAL PROTECTION			
SIWTCHBOARD ENCLOSURE	HAGER	VEGA-D FD72DN	1
SINGLE POLE CIRCUIT BREAKER 63A (RED)	HAGER	MSN163R	2
SINGLE POLE CIRCUIT BREAKER 63 A	HAGER	MSN163	1
SINGLE POLE CIRCUIT BREAKER 32 A	HAGER	MSN132	3
SINGLE POLE CIRCUIT BREAKER 25 A	HAGER	MSN125	1
SINGLE POLE CIRCUIT BREAKER 16 A	HAGER	MSN116	1
SINGLE POLE CIRCUIT BREAKER 10 A	HAGER	MSN110	2
ARC FAULT DETECTION CIRCUIT BREAKER 20A	HAGER	ARC920D	4
RCD CIRCUIT BREAKER 32A 30mA	HAGER	ADC332T	1
RCD CIRCUIT BREAKER 25A 30mA	HAGER	CDA225T	6
RCD CIRCUIT BREAKER 16A 30mA	HAGER	ADC316T	1
RCD CIRCUIT BREAKER 10A 30mA	HAGER	ADC310T	1
RCD CIRCUIT BREAKER 40A 100mA	HAGER	AEC940T	1
RCD CIRCUIT BREAKER 10A 100mA	HAGER	AEC910T	1
WEATHERPROOF ISOLATOR 32A	HAGER	JG232IN	1
ELECTRICAL METERING			
KNX ENERGY METER WITH 3xCURRENT TRANSFORMER	HAGER	TE331	5
GRID CONNECTION METER	E3DC	LM3p05isp	1
SOLAR PV CONNECTION METER	E3DC	LM3p06isp	2
SOCKET OUTLETS			
DOUBLE SOCKET OUTLETS 10A	HAGER	WBSP2S	18
SINGLE SOCKET OUTLETS 10A	HAGER	WBSP1S	3
DOUBLE SOCKET OUITLET WITH USB CHARGING 10A/2A	HAGER	WBSP2SUSB	4
WEATHERPROOF DOUBLE SOCKET OUTLET 10A	HAGER	WBWP2S	3
LIGHTING/FANS			
LED DOWNLIGHT 9W	LUMEX	LL1N2M3	22
DINING ROOM PENDANT 12W	LUCCI DÉCOR	HUSK PENDANT	1
KITCHEN PENDANT 25W	LUCCI LEDLUX	LED PENDANT IN TEAK	1
EXTERIOR WALL LIGHT	LUCCI LEDLUX	MACEDON EXTERIOR WALL LIGHT	5
BATHROOM EXHAUST FAN	ALLVENT	RHF 150-6	2
CEILING FAN (INSIDE)	LUCCI AIR	VICEROY 132cm DC FAN	2
CEILING FAN (OUTSIDE)	MINKA AIR	AVIATION 152cm DC FAN	1
APPLIANCES			
REFRIDGERATOR/FREEZER	GORENJE	NRK6193UX-AU	1
WASHER/DRYER	AEG	L99699HWD	1
DISHWASHER	SMEG	DWA6315X1	1
MICROWAVE	WESTINGHOUSE	WMF4102SA	1
INDUCTION COOKTOP	MIELE	KM 6363-1	1
RANGEHOOD	AEG	DGE5860HM	1
HOT WATER UNIT 2kW	ROTEX	ROSC20-544	1

NOTES

HOUSES TOTAL CONNECTED LOAD IS 36.78 kW

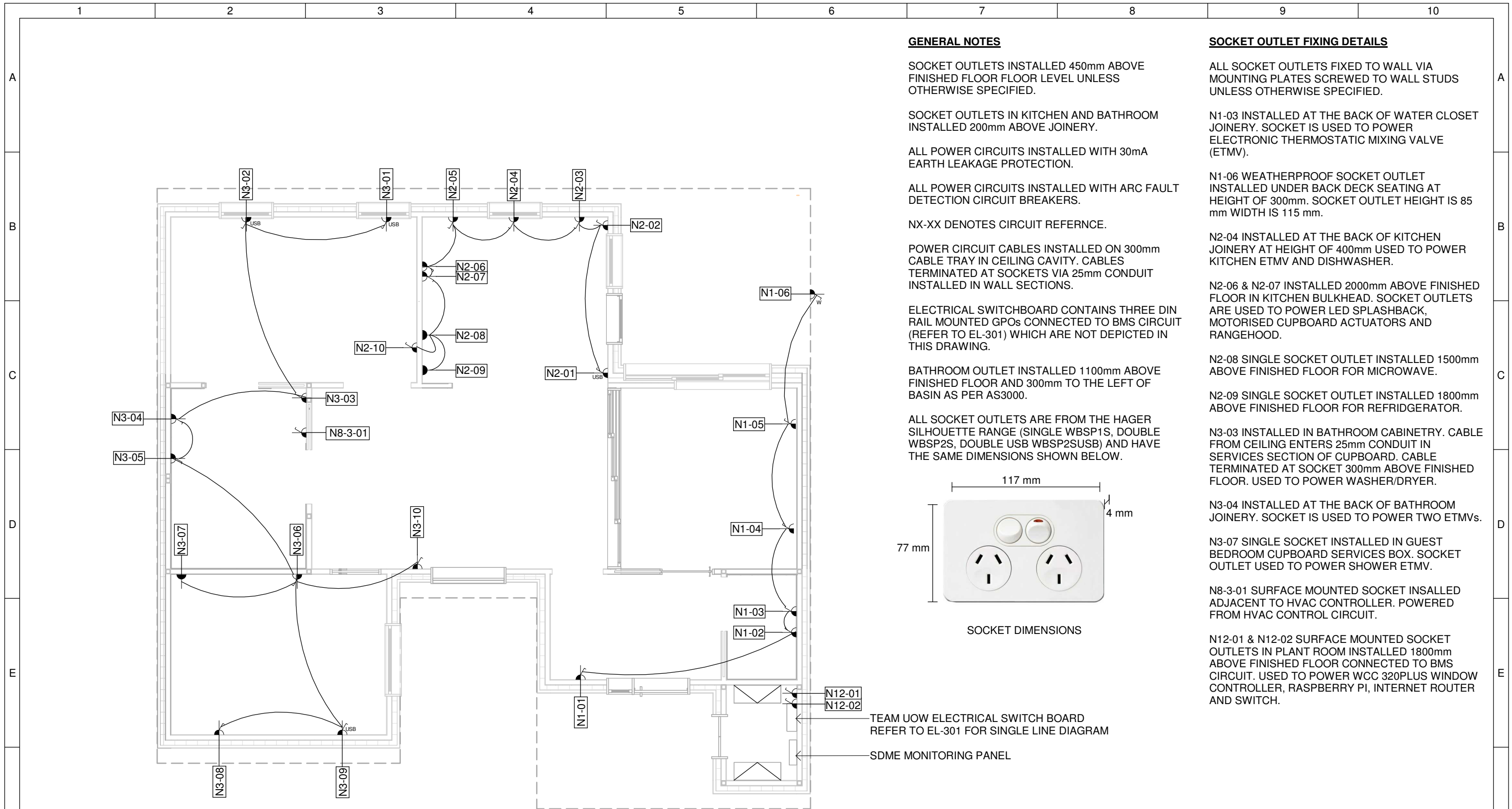
HOUSES MAX DEMAND LOAD IS 14.35 kW

ELECTRICAL	
	DC
	LINE AND NEUTRAL CIRCUIT BREAKER (XX A IS THE CURRENT RATING)
	RESIDUAL CURRENT DEVICE PROTECTED CIRCUIT BREAKER (XX A IS THE CURRENT RATING)
	CURRENT TRANSFORMER FOR METERING
	LIGHTNING
	AC
	DOUBLE POLE DC
	ACTIVE
	NEUTRAL
	EARTH
	SOLAR
	SOLAR PV
	ENERGY STORAGE
	DC/DC

ELECTRICAL	
	SINGLE SOCKET OUTLET
	DOUBLE SOCKET OUTLET
	WEATHERPROOF DOUBLE SOCKET OUTLET
	DOUBLE SOCKET WITH USB CHARGING
	KNX WALL
	DOWNLIGHT
	SMOKE
	EXHAUST
	SINGLE PHASE CIRCUIT WITH CABLE CROSS SECTIONAL AREA

1 Load Schedule/ Legend

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	REV.	DESCRIPTION	DATE	DRAWN	CHECK										
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			SHEET: 01 OF 01												



GENERAL NOTES

SOCKET OUTLETS INSTALLED 450mm ABOVE FINISHED FLOOR LEVEL UNLESS OTHERWISE SPECIFIED.

SOCKET OUTLETS IN KITCHEN AND BATHROOM INSTALLED 200mm ABOVE JOINERY.

ALL POWER CIRCUITS INSTALLED WITH 30mA EARTH LEAKAGE PROTECTION.

ALL POWER CIRCUITS INSTALLED WITH ARC FAULT DETECTION CIRCUIT BREAKERS.

NX-XX DENOTES CIRCUIT REFERENCE.

POWER CIRCUIT CABLES INSTALLED ON 300mm CABLE TRAY IN CEILING CAVITY. CABLES TERMINATED AT SOCKETS VIA 25mm CONDUIT INSTALLED IN WALL SECTIONS.

ELECTRICAL SWITCHBOARD CONTAINS THREE DIN RAIL MOUNTED GPOs CONNECTED TO BMS CIRCUIT (REFER TO EL-301) WHICH ARE NOT DEPICTED IN THIS DRAWING.

BATHROOM OUTLET INSTALLED 1100mm ABOVE FINISHED FLOOR AND 300mm TO THE LEFT OF BASIN AS PER AS3000.

ALL SOCKET OUTLETS ARE FROM THE HAGER SILHOUETTE RANGE (SINGLE WBSP1S, DOUBLE WBSP2S, DOUBLE USB WBSP2SUSB) AND HAVE THE SAME DIMENSIONS SHOWN BELOW.



SOCKET DIMENSIONS

SOCKET OUTLET FIXING DETAILS

ALL SOCKET OUTLETS FIXED TO WALL VIA MOUNTING PLATES SCREWED TO WALL STUDS UNLESS OTHERWISE SPECIFIED.

N1-03 INSTALLED AT THE BACK OF WATER CLOSET JOINERY. SOCKET IS USED TO POWER ELECTRONIC THERMOSTATIC MIXING VALVE (ETMV).

N1-06 WEATHERPROOF SOCKET OUTLET INSTALLED UNDER BACK DECK SEATING AT HEIGHT OF 300mm. SOCKET OUTLET HEIGHT IS 85 mm WIDTH IS 115 mm.

N2-04 INSTALLED AT THE BACK OF KITCHEN JOINERY AT HEIGHT OF 400mm USED TO POWER KITCHEN ETMV AND DISHWASHER.

N2-06 & N2-07 INSTALLED 2000mm ABOVE FINISHED FLOOR IN KITCHEN BULKHEAD. SOCKET OUTLETS ARE USED TO POWER LED SPLASHBACK, MOTORISED CUPBOARD ACTUATORS AND RANGEHOOD.

N2-08 SINGLE SOCKET OUTLET INSTALLED 1500mm ABOVE FINISHED FLOOR FOR MICROWAVE.

N2-09 SINGLE SOCKET OUTLET INSTALLED 1800mm ABOVE FINISHED FLOOR FOR REFRIDGERATOR.

N3-03 INSTALLED IN BATHROOM CABINERY. CABLE FROM CEILING ENTERS 25mm CONDUIT IN SERVICES SECTION OF CUPBOARD. CABLE TERMINATED AT SOCKET 300mm ABOVE FINISHED FLOOR. USED TO POWER WASHER/DRYER.

N3-04 INSTALLED AT THE BACK OF BATHROOM JOINERY. SOCKET IS USED TO POWER TWO ETMVs.

N3-07 SINGLE SOCKET INSTALLED IN GUEST BEDROOM CUPBOARD SERVICES BOX. SOCKET OUTLET USED TO POWER SHOWER ETMV.

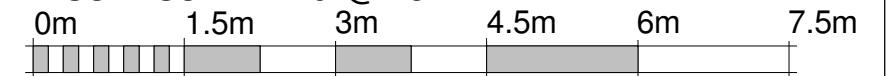
N8-3-01 SURFACE MOUNTED SOCKET INSTALLED ADJACENT TO HVAC CONTROLLER. POWERED FROM HVAC CONTROL CIRCUIT.

N12-01 & N12-02 SURFACE MOUNTED SOCKET OUTLETS IN PLANT ROOM INSTALLED 1800mm ABOVE FINISHED FLOOR CONNECTED TO BMS CIRCUIT. USED TO POWER WCC 320PLUS WINDOW CONTROLLER, RASPBERRY PI, INTERNET ROUTER AND SWITCH.

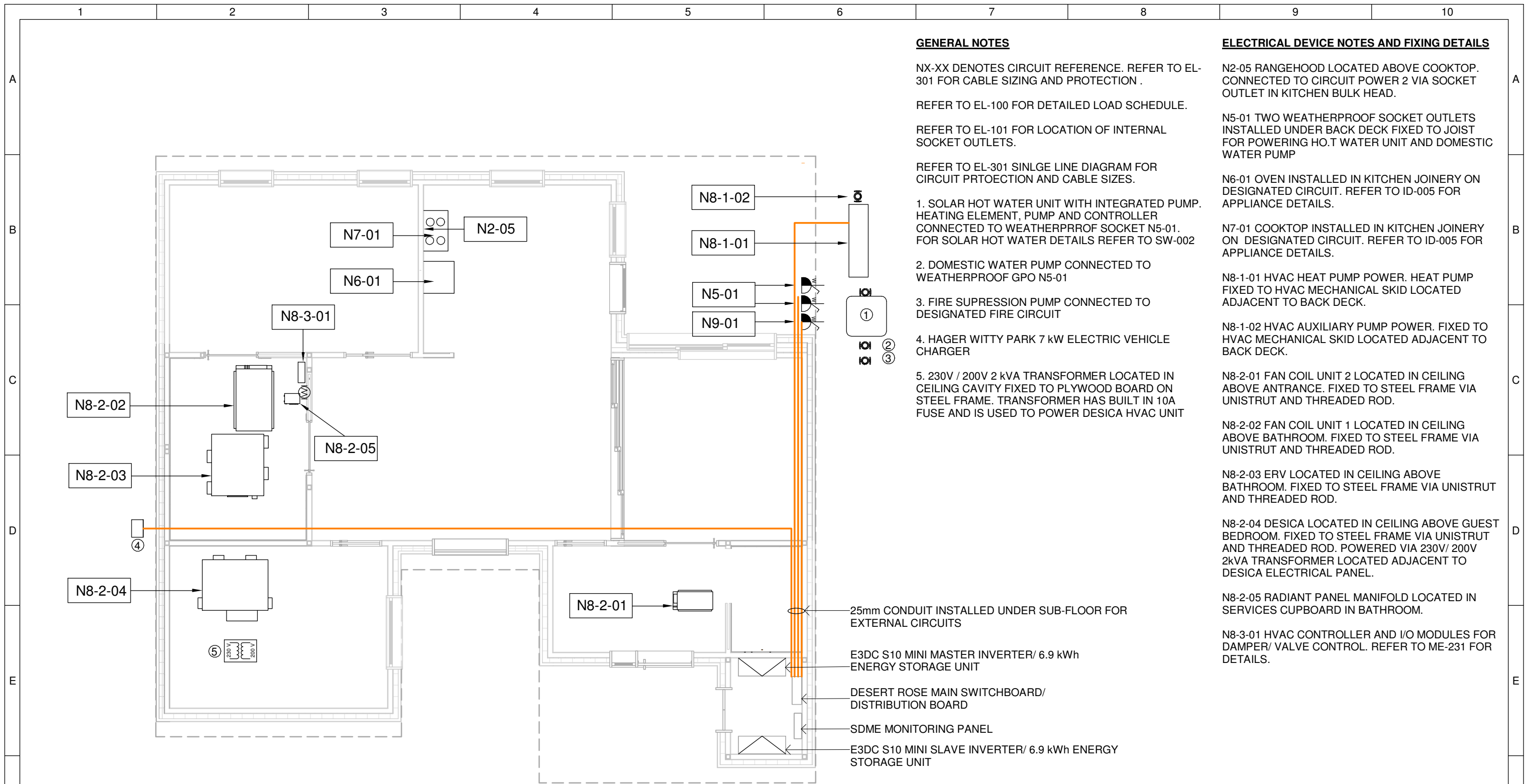
1 Power Plan - Sockets

1 : 75

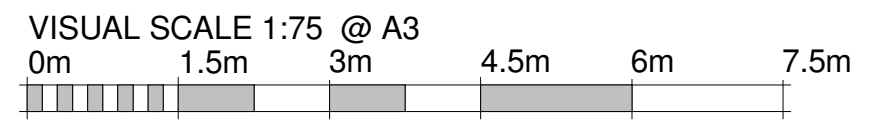
VISUAL SCALE 1:75 @ A3



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							DRAWER B.BANFIELD			
							CHECKED V.PHAM			
							DATE 9, September 2018		SHEET: 01 OF 01	
							SCALE 1 : 75 @ A3			



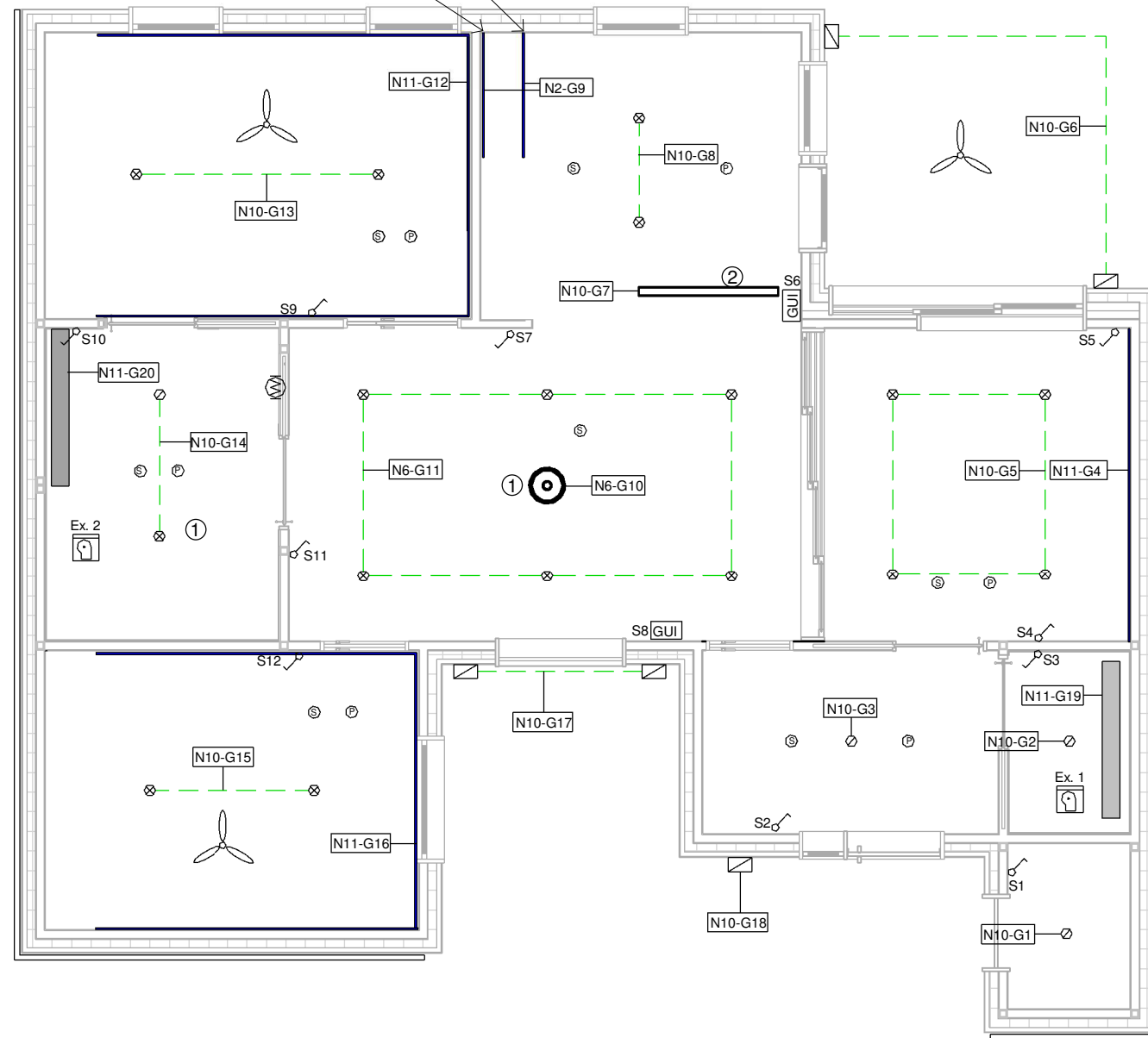
1 Power Plan - Major Devices
1 : 75



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LED STRIP RECESSED INTO KITCHEN JOINERY ABOVE COOKTOP

PIXALUX LED SPLASHBACK



SWITCHING SCHEDULE		
SWITCH REFERENCE	NO. POINTS ON SWITCH	LIGHTING SWITCHING GROUPS
S1	1	G1
S2	3	G3, G19, ALL OFF
S3	3	G2, G20, EXHAUST FAN 1
S4	2	G4, G5
S5	3	G4, G5, G6
S6	4	G6, G7, G8, G9
S7	3	G8, G10, G11
S8	3	G10, G11, G17
S9	2	G12, G13
S10	3	G14, G21, EXHAUST FAN 2
S11	3	G14, G21, EXHAUST FAN 2
S12	2	G15, G16

NOTES

N#-G# DENOTES CIRCUIT REFERENCE AND SWITCHING GROUP.

SWITCHES MOUNTED 1100mm ABOVE FINISHED FLOOR.

ALL DOWNLIGHTS CONNECTED VIA DALI DISTRIBUTION 5 CORE CABLE (TWIN AND EARTH PLUS TWO DALI LINES).

ALL PENDANTS AND EXTERIOR WALL LIGHTS CONNECTED TO KNX RELAYS. REFER TO BAS-201.

LED STRIPS AND PIXALUX PANELS CONTROLLED OVER IP THROUGH UOW DEVELOPED WIFI CONTROLLER.

LED STRIP TRANSFORMERS LOCATED IN CEILING CAVITY CONNECTED TO PLUG BASES

ALL WALL SWITCHES AND TOUCH DISPLAYS CONNECTED TO KNX BUS.

SWITCHES COMMUNICATE TO LIGHTING FIXTURES VIA KNX/DALI GATEWAY LOCATED IN ELECTRICAL PLANT ROOM.

EXHAUST FANS CONNECTED TO KNX RELAYS WITH FLOW RATE OF 61.1 L/s.

1. LIVING ROOM PENDANT 12W

2. KITCHEN ISLAND LED STRIP PENDANT 25W

LEGEND, FIXING DETAILS AND DIMENSIONS

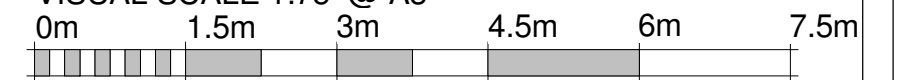
- MELEC ML-SMDFX-HY HYBRID LED STRIP INSTALLED IN CORNICES. DIM 10mm WIDE
- LUMEX NOVALED MAXI LL1N2M3 9W DOWNLIGHT HELD BY CLIPS IN 92mm CUT INTO CEILING GYPROCK. INSTALLATION DEPTH 77mm, FRAME DIAMETER 110mm
- SIEMENS S54320-F7-A3 MULTI SENSOR SMOKE DETECTOR. DETECTOR BASES SCREWED INTO CEILING GYPROCK. DIAMETER (INCLUDING BASE) 117mm, HEIGHT 48mm
- HAGER TCC530E PRESENCE+BRIGHTNESS SENSOR HELD BY CLIPS IN 50mm HOLE CUT INTO CEILING GYPROCK. INSTALLATION DEPTH 60mm, FRAME DIAMETER 80mm
- LUCCI LEDLUX MACEDON EXTERIOR WALL MOUNTED LIGHT 17 W FIXED TO WEATHERTEX CLADDING. HEIGHT 240mm, WIDTH, 120mm, DEPTH 64mm
- ALLVENT RBF150-6 CEILING EXHAUST FAN INSTALLED IN BATHROOM CEILING 290mm CUTOUT. INSTALLATION DEPTH 195mm
- BERKER B.IQ KNX WALL SWITCH. S# DENOTES SWITCH NUMBER. FIXED TO WALL VIA BUS COUPLING UNIT AND BERKER WALLBOX AT 1100mm ABOVE FINISHED FLOOR. WIDTH 88.5mm, HEIGHT 88.5mm.
- BERKER KNX TOUCH CONTROL WITH INTEGRATED BUS COUPLING UNIT. MOUNTED TO WALL WITH BERKER WALLBOX. HEIGHT 75mm, WIDTH 95mm, INSERTION DEPTH 25.5mm
- PIXALUX LED LIGHT PANEL 1800mm x 200mm SCREWED TO STEEL FRAME, MADE FLUSH WITH FINISHED CEILING
- CEILING FAN CONNECTED TO CIRCUIT N11 (FANS/LED) CONTROLLED VIA REMOTE

Lighting

1

1 : 75

VISUAL SCALE 1:75 @ A3

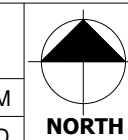


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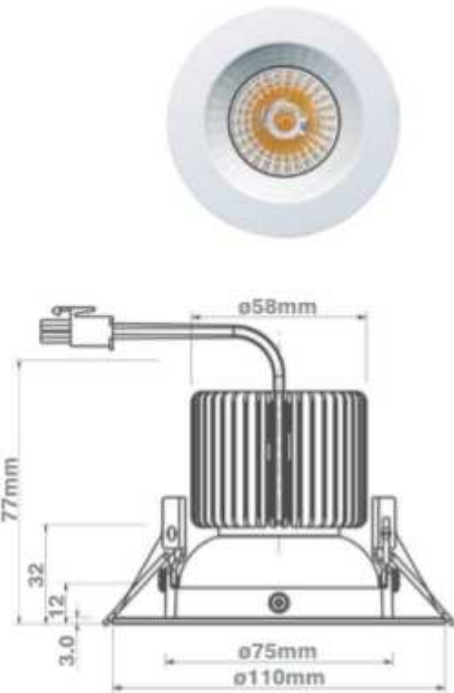
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SCALE 1 : 75 @ A3



LIGHTING PLAN

SHEET:
01 OF 01

EL-201



NOVALED MAXI LL1N2M3

PHYSICAL:
 INSTALLATION DEPTH: 77 mm
 FRAME DIAMETER: 110 mm
 WEIGHT WITH DRIVER: 0.65 Kg

CONSTRUCTION:
 FRAME COLOUR: WHITE
 PROTECTION RATING: IP 54
 FULLY RECYCLABLE

OUTPUT:
 LUMINOUS FLUX 3000 K: 800 Lm
 CRI: > 90

ELECTRICAL:
 DALI COMPATIBLE
 TYPICAL TOTAL POWER: 9 W



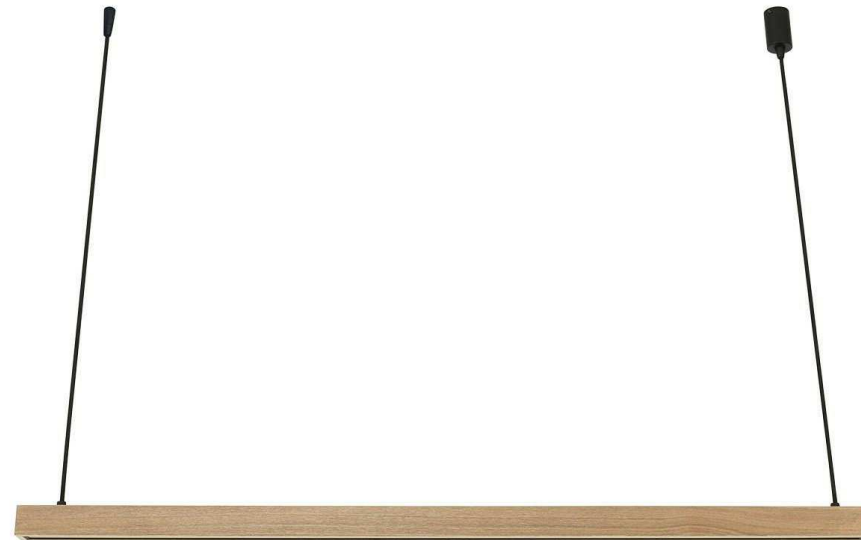
LUCCI DECOR HUSK PENDANT

PHYSICAL:
 WIDTH: 400mm
 HEIGHT: 390mm
 MAX SUSPENSION: 2000mm

CONSTRUCTION:
 COLOUR: MATTE BLACK
 SUSPENDED PENDANT

OUTPUT:
 LUMINOUS FLUX 3000 K: 800 Lm

ELECTRICAL:
 VOLTAGE: 240V
 WATTAGE (MAX): 45W
 WATTAGE: 12W



LUCCI LEDLUX LED PENDANT IN TEAK

PHYSICAL:
 WIDTH: 1600mm
 HEIGHT: 40mm
 DEPTH: 47mm
 MAX SUSPENSION: 2000mm

CONSTRUCTION:
 COLOUR: BROWN
 SUSPENDED PENDANT

OUTPUT:
 LUMINOUS FLUX 3000 K WARM WHITE

ELECTRICAL:
 VOLTAGE: 240V
 WATTAGE: 25W



LUCCI LEDLUX MACEDON EXTERIOR UP/DOWN WALL LIGHT

PHYSICAL:
 WIDTH: 120mm
 HEIGHT: 240mm
 DEPTH: 64mm

CONSTRUCTION:
 COLOUR: CHARCOAL
 WALL MOUNTED

OUTPUT:
 LUMINOUS FLUX 4000 K COOL WHITE: 850 Lm

ELECTRICAL:
 VOLTAGE: 240V
 WATTAGE: 17W

Lighting Details

1



Desert Rose
 Team UOW
 Australia - Dubai

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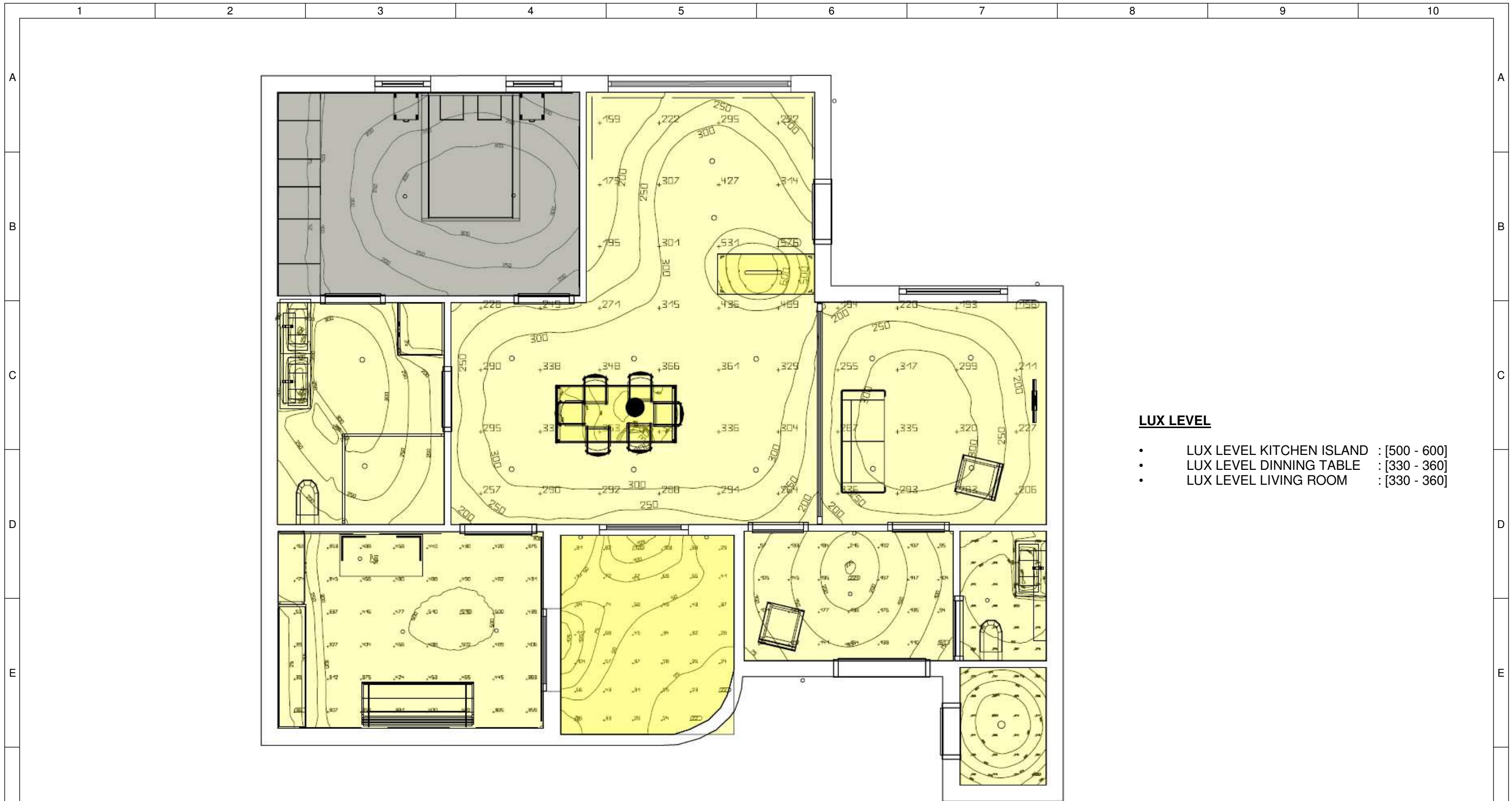
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SCALE	N.T.S. @ A3

LIGHTING DETAILS

SHEET:
01 OF 01



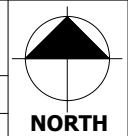
EL-202



LUX LEVEL

- LUX LEVEL KITCHEN ISLAND : [500 - 600]
- LUX LEVEL DINNING TABLE : [330 - 360]
- LUX LEVEL LIVING ROOM : [330 - 360]

1 Lux Level

 <p>Desert Rose Team UOW Australia - Dubai</p>	<p>Team: TEAM UOW</p>	<p>Client: Dubai Electricity and Water Authority</p> 	<p>AMENDMENTS</p>				<p>COPYRIGHT None; Project is Public</p>		 <p>NORTH</p>	<p>LUX LEVEL DETAIL</p>					
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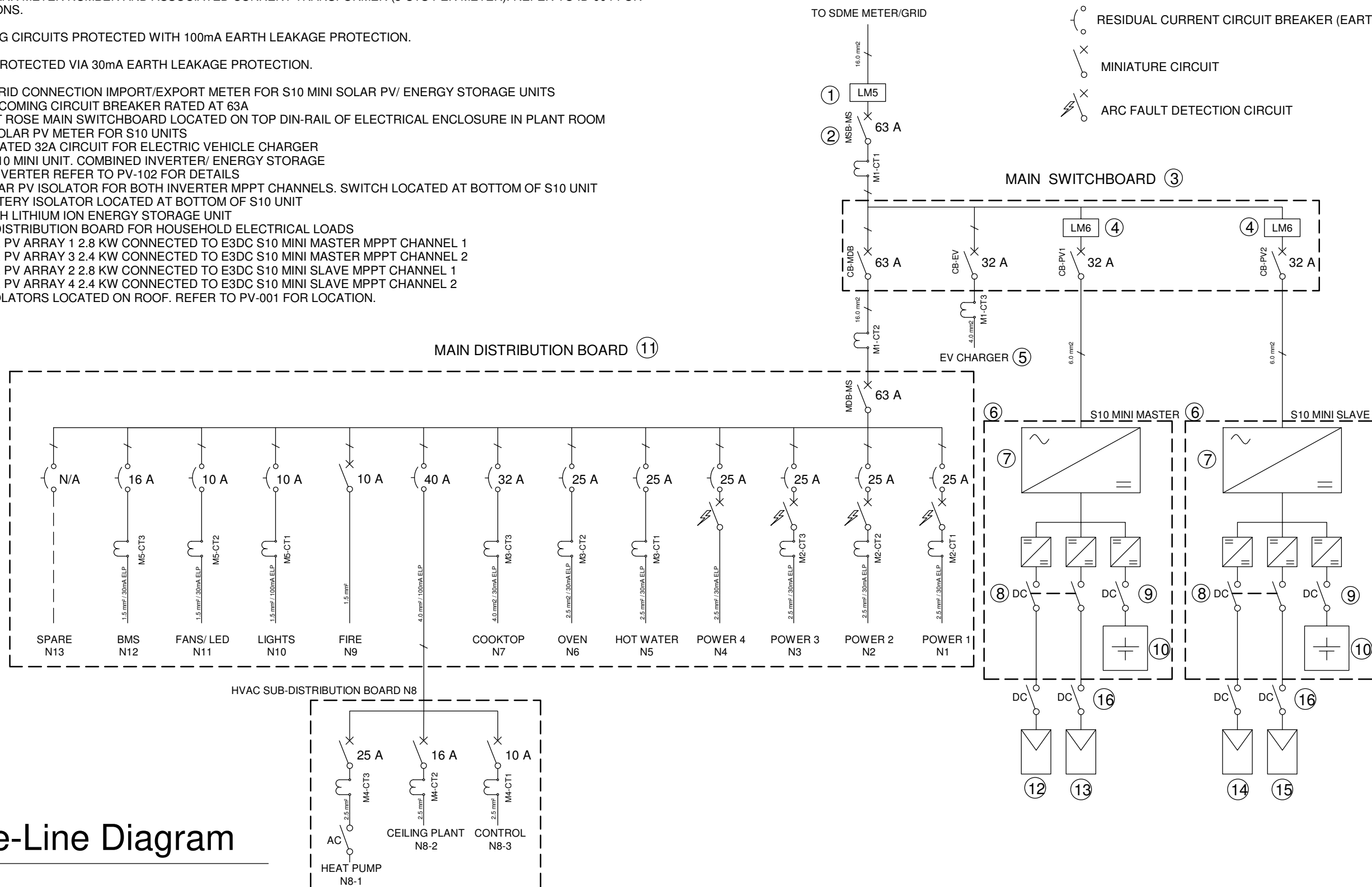
N# DENOTES SUB-CIRCUIT REFERENCE.

M#-CT# DENOTES KNX METER NUMBER AND ASSOCIATED CURRENT TRANSFORMER (3 CTS PER METER). REFER TO ID-004 FOR METER CONNECTIONS.

HVAC AND LIGHTING CIRCUITS PROTECTED WITH 100mA EARTH LEAKAGE PROTECTION.

OTHER CIRCUITS PROTECTED VIA 30mA EARTH LEAKAGE PROTECTION.

1. E3DC GRID CONNECTION IMPORT/EXPORT METER FOR S10 MINI SOLAR PV/ ENERGY STORAGE UNITS
2. MAIN INCOMING CIRCUIT BREAKER RATED AT 63A
3. DESERT ROSE MAIN SWITCHBOARD LOCATED ON TOP DIN-RAIL OF ELECTRICAL ENCLOSURE IN PLANT ROOM
4. E3DC SOLAR PV METER FOR S10 UNITS
5. DESIGNATED 32A CIRCUIT FOR ELECTRIC VEHICLE CHARGER
6. E3DC S10 MINI UNIT. COMBINED INVERTER/ ENERGY STORAGE
7. E3DC INVERTER REFER TO PV-102 FOR DETAILS
8. DC SOLAR PV ISOLATOR FOR BOTH INVERTER MPPT CHANNELS. SWITCH LOCATED AT BOTTOM OF S10 UNIT
9. DC BATTERY ISOLATOR LOCATED AT BOTTOM OF S10 UNIT
10. 6.9 KWH LITHIUM ION ENERGY STORAGE UNIT
11. MAIN DISTRIBUTION BOARD FOR HOUSEHOLD ELECTRICAL LOADS
12. SOLAR PV ARRAY 1 2.8 KW CONNECTED TO E3DC S10 MINI MASTER MPPT CHANNEL 1
13. SOLAR PV ARRAY 3 2.4 KW CONNECTED TO E3DC S10 MINI MASTER MPPT CHANNEL 2
14. SOLAR PV ARRAY 2 2.8 KW CONNECTED TO E3DC S10 MINI SLAVE MPPT CHANNEL 1
15. SOLAR PV ARRAY 4 2.4 KW CONNECTED TO E3DC S10 MINI SLAVE MPPT CHANNEL 2
16. DC ISOLATORS LOCATED ON ROOF. REFER TO PV-001 FOR LOCATION.



1 One-Line Diagram



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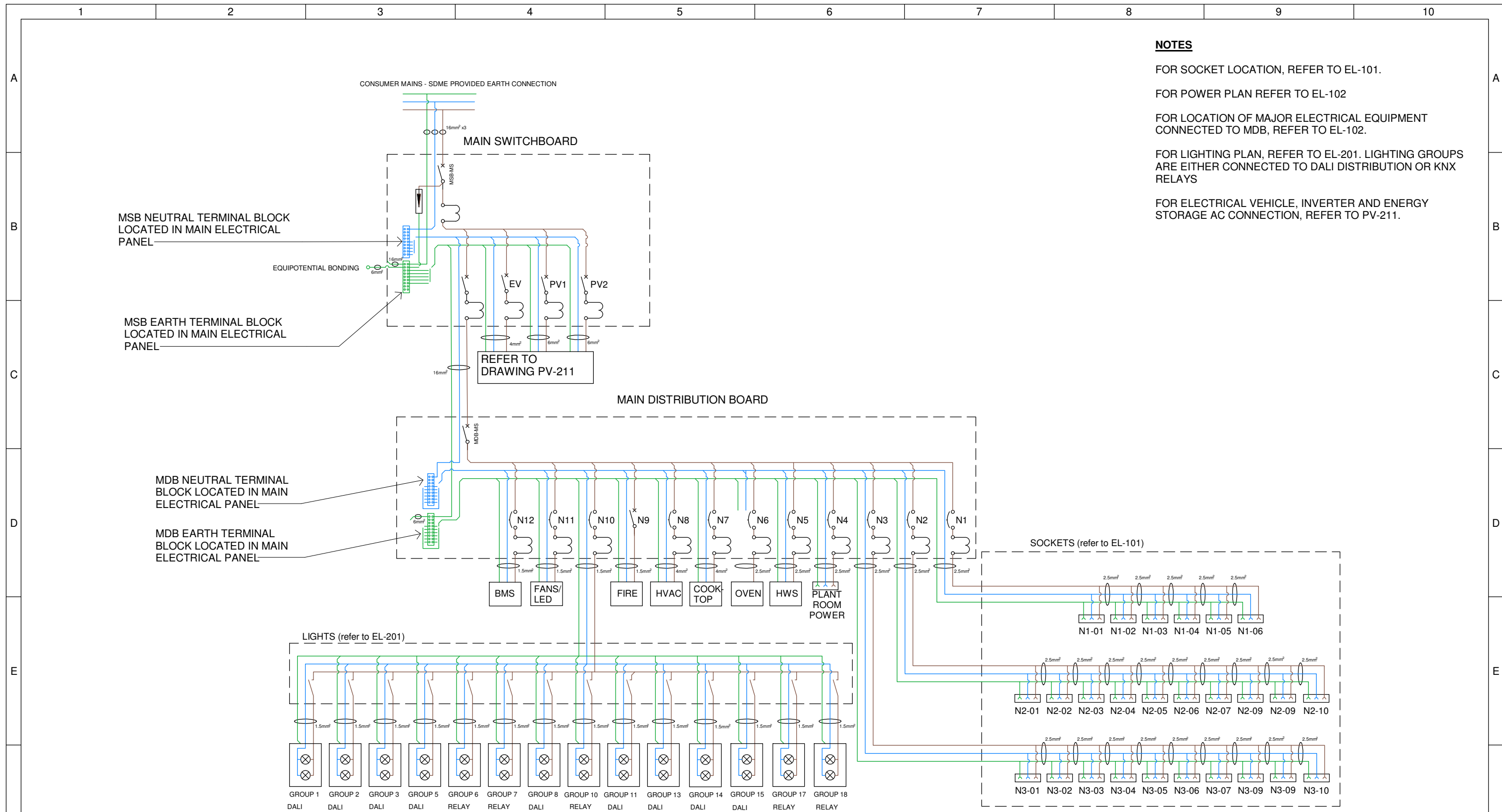
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ONE-LINE DIAGRAM

SHEET: 01 OF 01

EL-301



NOTES

FOR SOCKET LOCATION, REFER TO EL-101.

FOR POWER PLAN REFER TO EL-102

FOR LOCATION OF MAJOR ELECTRICAL EQUIPMENT CONNECTED TO MDB, REFER TO EL-102.

FOR LIGHTING PLAN, REFER TO EL-201. LIGHTING GROUPS ARE EITHER CONNECTED TO DALI DISTRIBUTION OR KNX RELAYS

FOR ELECTRICAL VEHICLE, INVERTER AND ENERGY STORAGE AC CONNECTION, REFER TO PV-211.

1 Electrical Layouts

	Team: TEAM UOW Address: UNIVERSITY OF WOLLONGONG WOLLONGONG NSW, AUSTRALIA 2522 Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au	Client: Dubai Electricity and Water Authority 	AMENDMENTS <table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Updated to As-Built</td> <td>14/09/18</td> <td>BB</td> <td>CM</td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECK	1	Updated to As-Built	14/09/18	BB	CM	COPYRIGHT None; Project is Public LOT # M DRAWER M.STEPHENSON CHECKED B.BANFIELD DATE 10, September 2018 SCALE N.T.S. @ A3	ELEC. PANELS/ CIRCUIT LAYOUTS/ GRND EL-401 SHEET: 01 OF 01
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