O'CONNOR · SUTTON · CRONIN
MULTIDISCIPLINARY CONSULTING ENGINEERS

BOW GREEN, PHASE 2

Electrical and ICT Services

Schedule of Electrical Plant and Equipment – MCCB Schedule

10/10/2025

Status A5

Revision C01

NOTICE

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DOCUMENT CONTROL & HISTORY

OCSC Job No.: B1089	Project Code	Originator	Zone Volume	Level	File Type	Role Type	Number	Status / Suitability Code	Revision
	W702	OCO03	XX	XX	SC	E	675-008	A5	C01

Rev.	Status	Authors	Checked	Authorised	Issue Date
C01	A5	K.P.	R.S.	R.S.	10/10/2025

Note* All cable sizing subject to change during stage 4 development.

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Electrical MCCB Schedules Summary Index

Ref	Location	Size	Rev
MAIN LANDLORD MCCB PANELBOARD DB/L/M	LV SWITCHROOM GROUND FLOOR	2000A TPN 28 WAY STYLE G	C01
LIFE SAFETY BOARD DB/LS	LIFE SAFETY SWITCHROOM GROUND FLOOR	800A TPN 28 WAY STYLE G	C01
LANDLORDS MCCB PANELBOARD DB/LL/D	BLOCK D ELECTRICAL RISER GROUND FLOOR	250A TP&N 15 WAY	C01
LANDLORDS MCCB PANELBOARD DB/LL/E	BLOCK E ELECTRICAL RISER GROUND FLOOR	250A TP&N 15 WAY	C01
LANDLORDS MCCB PANELBOARD DB/LL/F	BLOCK F ELECTRICAL RISER GROUND FLOOR	250A TP&N 15 WAY	C01
LANDLORDS MCCB PANELBOARD DB/LL/G	BLOCK G ELECTRICAL RISER GROUND FLOOR	250A TP&N 15 WAY	C01

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Board Ref:	Main Landlord MCCB Panel board	**Project:**	**Bow Green, Phase 2**		
Location:	**LV Switchroom** **Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**2000A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1 L2 L3	DB/LL/D	H	95	50	400A (400A)	-	-	ML2.2	-
2	L1 L2 L3	DB/LL/E	H	150	35	400A (400A)	-	-	ML2.2	-
3	L1 L2 L3	DB/LL/F	H	150	35	400A (400A)	-	-	ML2.2	-
4	L1 L2 L3	DB/LL/G	H	240	35	400A (400A)	-	-	ML2.2	-
5	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
6	L1 L2 L3	DB/LL/COMMS – Comms Room LTG & PWR	G	35	16	100A (100A)	-	-	ML2.2	-
7	L1 L2 L3	DB/LL/SP – BCWS & Wet Riser Plant Rooms	G	35	16	100A (100A)	-	-	ML2.2	-
8	L1 L2 L3	DB/LL/WF – Water Feature Plant Room	G	35	16	100A (100A)	-	-	ML2.2	-
9	L1 L2 L3	DB/LL/WS – Waste Compactors LTG & PWR	G	95	50	250A (250A)	-	-	ML2.2	-
10	L1 L2 L3	DB/LL/CP1 – Car Park Lighting & Power	G	35	16	100A (100A)	-	-	ML2.2	-
11	L1 L2 L3	DB/CP1/LM1–EV Car Charging Management	G	35	16	100A (100A)	-	-	ML2.2	-
12	L1 L2 L3	DB/LL/EX – External Lighting & Services	G	35	16	100A (100A)	-	-	ML2.2	-

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	Main Landlord MCCB Panel board	**Project:**	**Bow Green, Phase 2**		
Location:	**LV Switchroom** **Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**1600A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
13	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
14	L1 L2 L3	BCWS Sprinkler Pump Control Panel ATS	H	95	35	-	160A	-	-	-
15	L1 L2 L3	Wet Riser Pump 01 ATS	H	120	50	-	250A	-	-	-
16	L1 L2 L3	Wet Riser Pump 02 ATS	H	120	50	-	250A	-	-	-
17	L1 L2 L3	Car Park Impulse Fans Control Panel ATS	H	35	Arm	100A (100A)	-	-		
18	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
19	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
20	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
21	L1 L2 L3	SPD	G	16	16	63A (100A)	-	-	ML2.2	-

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	Life Safety MCCB Panel board	**Project:**	**Bow Green, Phase 2**
Location:	**Life Safety Switchroom** **Ground Floor**	**Project No:**	**B1089** — **Rev: C01**
Main Isolator:	**800A**	**Date:**	**10.10.2025**

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1 L2 L3	Block D Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
2	L1 L2 L3	Block D Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
3	L1 L2 L3	Block D Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
4	L1 L2 L3	Block D Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
5	L1 L2 L3	Block D Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
6	L1 L2 L3	Block E Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
7	L1 L2 L3	Block E Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
8	L1 L2 L3	Block E Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
9	L1 L2 L3	Block E Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
10	L1 L2 L3	Block E Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
11	L1 L2 L3	Block F Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
12	L1 L2 L3	Block F Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
13	L1 L2 L3	Block F Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
14	L1 L2 L3	Block F Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-

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Board Ref:	Life Safety MCCB Panel board	**Project:**	**Bow Green, Phase 2**		
Location:	**Life Safety Switchroom** **Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**800A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
15	L1 L2 L3	Block G Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
16	L1 L2 L3	Block G Core 1 FF/EVAC Lift	H	16	16	63A (100A)	-	-	ML2.2	-
17	L1 L2 L3	Block G Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
18	L1 L2 L3	Block G Core 1 MAOV	H	16	16	63A (100A)	-	-	ML2.2	-
19	L1 L2 L3	BCWS Sprinkler Pump Control Panel	H	35	35	-	160	-	F/SW	-
20	L1 L2 L3	Wet Riser Pump 01	H	120	50	-	250	-	F/SW	-
21	L1 L2 L3	Wet Riser Pump 02	H	129	50	-	250	-	F/SW	-
22	L1 L2 L3	Car Park Impulse Fans Control Panel	H	35	35	100A (125A)	-	-	ML2.2	-
23	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
24	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
25	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
26	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
27	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
28	L1 L2 L3	SPD	G	16	16	63A (100A)	-	-	ML2.2	-

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	DB/LL/D– Landlords MCCB Riser D	**Project:**	**Bow Green Phase 2**		
Location:	**Electrical Riser D Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**250A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1	Fire Alarm Panel	H	4	4	16A	-	-	TMD	-
	L2	Evacuation Alarm Panel	H	4	4	16A	-	-	TMD	-
	L3	AOV Panel	H	4	4	16A	-	-	TMD	-
2	L1 L2 L3	DB/LL/D/1 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
3	L1 L2 L3	DB/LL/D/2 – LTG & PWR DB	G	35	16	100A (100A)	-	-	ML2.2	-
4	L1 L2 L3	DB/LL/D/3 – LTG & PWR DB	G	35	16	100A (100A)	-	-	ML2.2	-
5	L1 L2 L3	DB/LL/D/4 – LTG & PWR DB	G	35	16	100A (100A)	-	-	ML2.2	-
6	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
7	L1 L2 L3	MOAV Control Panel	H	16	16	32A (100A)	-	-	ML2.2	-
8	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
9	L1 L2 L3	MOAV Control Panel	H	16	16	32A (100A)	-	-	ML2.2	-
10	L1 L2 L3	MOAV Control Panel	H	16	16	32A (100A)	-	-	ML2.2	-
11	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
12	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
13	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
14	L1 L2	Spare	-	-	-	-	-	-	-	-

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	L3									
15	L1 L2 L3	SPD	-	-	-	-	-	-	-	-

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	DB/LL/E– Landlords MCCB Riser E	**Project:**	**Bow Green Phase 2**		
Location:	**Electrical Riser E Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**250A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1	Fire Alarm Panel	H	4	4	16A	-	-	TMD	-
	L2	Evacuation Alarm Panel	H	4	4	16A	-	-	TMD	-
	L3	AOV Panel	H	4	4	16A	-	-	TMD	-
2	L1 L2 L3	DB/LL/E/1 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
3	L1 L2 L3	DB/LL/E/2 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
4	L1 L2 L3	DB/LL/E/3 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
5	L1 L2 L3	DB/LL/E/4 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
6	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
7	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
8	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
9	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
10	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
11	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
12	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
13	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
14	L1									

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	L2	Spare	-	-	-	-	-	-	-	-
	L3									
15	L1	SPD	-	-	-	-	-	-	-	-
	L2									
	L3									

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	DB/LL/F– Landlords MCCB Riser F	**Project:**	**Bow Green Phase 2**		
Location:	**Electrical Riser F Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**250A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1	Fire Alarm Panel	H	4	4	16A	-	-	TMD	-
	L2	Evacuation Alarm Panel	H	4	4	16A	-	-	TMD	-
	L3	AOV Panel	H	4	4	16A	-	-	TMD	-
2	L1 L2 L3	DB/LL/F/1 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
3	L1 L2 L3	DB/LL/F/2 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
4	L1 L2 L3	DB/LL/F/3 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
5	L1 L2 L3	DB/LL/F/4 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
6	L1 L2 L3	DB/LL/F/5 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
7	L1 L2 L3	DB/LL/F/6 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
8	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
9	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
10	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
11	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
12	L1 L2 L3	Spare	-	-	-	-	-	-	-	-
13	L1 L2	Spare	-	-	-	-	-	-	-	-

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	L3									
14	L1	Spare	-	-	-	-	-	-	-	-
	L2									
	L3									
15	L1	SPD	-	-	-	-	-	-	-	-
	L2									
	L3									

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Board Ref:	DB/LL/G– Landlords MCCB Riser G	**Project:**	**Bow Green Phase 2**		
Location:	**Electrical Riser G Ground Floor**	**Project No:**	**B1089**	**Rev: C01**	
Main Isolator:	**250A**	**Date:**	**10.10.2025**		

Circuit No.	Phase	Description	Type of wiring (see code below)	Circuits Conductors csa		Protective Device				
				Live (mm²)	CPC (mm²)	ACB/ MCCB Rating	BS 88 Fuse Rating	MCB Rating	Type	RCD Rating (mA)
1	L1	Fire Alarm Panel	H	4	4	16A	-	-	TMD	-
	L2	Evacuation Alarm Panel	H	4	4	16A	-	-	TMD	-
	L3	AOV Panel	H	4	4	16A	-	-	TMD	-
2	L1 L2 L3	DB/LL/G/1 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
3	L1 L2 L3	DB/LL/G/2 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
4	L1 L2 L3	DB/LL/G/3 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
5	L1 L2 L3	DB/LL/G/4 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
6	L1 L2 L3	DB/LL/G/5 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
7	L1 L2 L3	DB/LL/G/6 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
8	L1 L2 L3	DB/LL/G/7 – LTG & PWR DB	G	25	10	100A (100A)	-	-	ML2.2	-
9	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
10	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-
11	L1 L2 L3	FF/Evacuation Lift	H	16	16	63A (100A)	-	-	ML2.2	-
12	L1 L2 L3	MOAV Control Panel	H	16	16	63A (100A)	-	-	ML2.2	-

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13	L1	Spare	-	-	-	-	-	-	-	-
	L2									
	L3									
14	L1	Spare	-	-	-	-	-	-	-	-
	L2									
	L3									
15	L1	SPD	-	-	-	-	-	-	-	-
	L2									
	L3									

CODES FOR TYPE OF WIRING								
A	B	C	D	E	F	G	H	O (Other)
LSOH/LSOH cables	LSOH cables in metallic conduit	LSOH cables in non-metallic conduit	LSOH cables in metallic trunking	LSOH cables in non-metallic trunking	PVC/SWA/ LSOH cables	XLPE/SWA/ LSOH cables	Fire rated cables	

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Notes:

a) All metal distribution boards to be provided with lockable doors.
b) All Distribution Boards to installed/mounted at a height of 450mm AFFL min. or as set out by the architect where different.
c) Whole installation to be in full compliance with BS7671. The appointed Contractor shall be required to request clarification to any deviations identified, prior to proceeding with procurement or installation works commencing.
d) Any service not installed greater than 50mm min in depth from finished surface shall be required to be installed within metal conduits and protected by RCBO's/RCDs with the use of high impact conduit to be installed for services installed at depths greater than 50mm.
e) The Contractor is to confirm all final cable lengths for each circuit prior to procurement and installation works commencing to ensure the checks are carried out for cable sizes in conjunction to drawing layouts, cable routes and co-ordination chosen by the Contractor.
f) Prior to procurement and any installation works progressing, all cabling shall be distributed along common routes and in full agreement with the architect and structural engineer.
g) All schedules to be read in conjunction with the associated services specifications and drawings.
h) The Contractor shall co-ordinated all associated details with the architect.
i) The Contractor is to refer to the Architects fire compartment layouts for fire collar & protection require on all fire rated walls and structures.
j) The Contractor shall be required to issue a full technical submission prior to procurement for all associated equipment which shall include all component details, controls & wiring diagrams and layouts indicating location of associated components to allow for review and comment by the design team.
k) All associated equipment is to be issued with full detailed installation manuals with operating & maintenance and fault-finding information.
l) Appointed Contractor to confirm final manufacturer and part number prior to placing order.
m) The Contractor is to allow and co-ordinate with for any necessary Fire, Acoustic and Architects requirements.
n) Contractor to ensure all associated electrical accessories suit manufacturers requirements.
o) Contractor to ensure all devices are in fully working order and complete; contractor to supply, install, test and commission to prior to handover and to ensure no defects are present.
p) All CDP items to be confirmed by contractor and provided to the project engineer for approval prior to placements of any orders.
q) All devices to be provided with manufacturer instruction guide and electrical contractor to co-ordinate with other trades and specialists to ensure a complete system is provided.
r) Where devices or accessories are no longer available from the manufacturer, the contractor is to provide an equal and approved fitting to the client or OCSC for approval, prior to installation.
s) The Contractor is to liaise with the PV specialists and their associated requirement to ensure a full working system.
t) The Contractor is to liaise with the Landscape Architect for the final lighting design and control strategy, OCSC drawings show circuiting information only. Contractor shall provide allowance for an external photocell and an astronomical timeclock for all external lighting.

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