

HAWKESBURY UPTON VILLAGE HALL

**5 YEAR CONDITION TEST
AND INSPECTION**

AT

HIGH STREET

HAWKESBURY UPTON

SOUTH GLOS

GL9 1AU

DATED OCTOBER 2016



Particulars At Origin

1. Incoming supply – 100A single phase BS1361 Type 2B
2. Type of income earth path – TNCS
3. Distribution: -
 - A. Feeding Cables – Tails phase/neutral – 25mm² double insulated
- Earthing – 16mm²
 - B. Distribution enclosure – Inset into front profile – not IP rated
4. Supply Particulars – ZE at origin – 0.27 Ω
PSC at origin – 1.984KA
Incoming Voltage – 232/400 V
5. Main switch/ isolator particulars – Tripled poled BS EN 60947-3
6. Sub Distribution Boards

<u>Board No.</u>	<u>Designation</u>	<u>Ways</u>	<u>Main Switch</u>	<u>Rating</u>
DB1	Hall/Stage	4 TPN	BS60947-3	100 A
DB2	Main Hall	16 SPN	BS60947-3	100 A
DB2A	Main Hall	10 SPN	BS60947-3	100 A
DB3	Kitchen	4 TPN	BS60947-3	100 A
DB4	External	4SPN	BS4293	100A

7. Sub Distribution Board Particular

<u>Board No.</u>	<u>ZE (s)</u>	<u>PSC (IF)</u>	<u>U[®]</u>
DB1	0.27 Ω	1.984KA	232/410V
DB2	0.32 Ω	1.538KA	230V
DB2A	0.32 Ω	1.466KA	230V
DB3	0.33 Ω	1.426KA	230/410V
DB4	0.62 Ω	0.721KA	230V

ELECTRICAL INSTALLATION CONDITION REPORT

GL000000120 - Master



A. Details of the Client/Person Ordering the Report

Client:
 Address:

B. Reason for Producing this Report

Purpose of this report:

 Date(s) on which Inspection:
 and testing was carried out

C. Details of the Installation which is the Subject of this Report

Installation:
 Occupier:
 Address:

Description of premises: Domestic Commercial Industrial
 Other:
 Estimated age of wiring system: yrs
 Evidence of alterations or additions: If yes estimated Age yrs
 Date of previous inspection:

Record of Installation available: Records held By:

D. Extent and Limitations Inspection and Testing

Extent of Electrical Installation covered by this report:

Agreed limitations including the reasons (See regulation 634.2)

Operational Limitations including the reasons (See page No)
 Agreed with name

This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2008 (IET Wiring Regulations) as amended to July 2015
 It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces, and generally within the fabric of the building or underground, have NOT been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

E. Summary of the Condition of the Installation

General condition of the installations (In terms of electrical safety)

The installation is serviceable but needs attention with signs of incorrect practices - See supplement report

Overall assessment of the installation *An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

F. Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, We recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'further investigation required' (code FI). Observation classified as 'Improvement recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken We recommend that the installation is further inspected and tested by

G. Declaration

We, being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by Our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations and attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in section D of this report.

Trading Title and address:

PartP Registration Number

Inspected and tested by:

Name Position Signature Date

Report authorised for issue by:

Name Position Signature Date

H. Schedule(s)

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

Schedule(s) of inspection and Schedule(s) of test results are attached

I. Supply Characteristics and Earthing Arrangements				Nature of Supply Parameters		Supply protective device	
Earthing Arrangements	Number and Type of Live Conductors						
TN-S <input type="checkbox"/>	a.c. <input checked="" type="checkbox"/>		d.c. <input type="checkbox"/>	Nominal Voltage $U^{(1)}$	400 V	BS(EN) 1361 Fuse HBC	
TN-C-S <input checked="" type="checkbox"/>	1-Phase (2 wire) <input type="checkbox"/>	1-Phase (3 wire) <input type="checkbox"/>	2 Wire <input type="checkbox"/>	Nominal Voltage $U_0^{(1)}$	230 V		
TN-C <input type="checkbox"/>	2-Phase (3 wire) <input type="checkbox"/>		3 Wire <input type="checkbox"/>	Nominal frequency $f^{(1)}$	50 Hz	Type 2	
TT <input type="checkbox"/>	3-Phase (3 wire) <input type="checkbox"/>	3-Phase (4 wire) <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Prospective fault current $I_{pf}^{(2)}$	1.988 kA		
IT <input type="checkbox"/>	Other <input type="text"/>			External loop impedance $Z_e^{(2)}$	0.27 Ω	Nominal current rating	100 A
Confirmation of supply polarity <input checked="" type="checkbox"/>				Number of supplies	1	Short circuit capacity	33 kA
				(Note: (1) by enquiry, (2) by enquiry or by measurement)			

J. Particulars of Installation Referred to in the Report	
Means of earthing	Details of installation Earth Electrode (where applicable)
Distributor's facility <input checked="" type="checkbox"/>	Type (e.g. rod(s), tape etc.) <input type="text"/>
Installation earth electrode <input type="checkbox"/>	Resistance to Earth <input type="text"/> Ω
	Location <input type="text"/>
	Method of measurement <input type="text"/>

Main Protective Conductors		Tick boxes and enter details as applicable	
Earthing Conductor	Material <input type="text"/> Copper	csa <input type="text"/> 25	mm ² Connection and Continuity Verified <input checked="" type="checkbox"/>
Main protective bonding conductors	Material <input type="text"/> Copper	csa <input type="text"/> 10	mm ² Connection and Continuity Verified <input checked="" type="checkbox"/>
Bonding of Incoming Service		Maximum Demand (Load)	
Water installation pipes <input checked="" type="checkbox"/>	Gas installation pipes <input type="text"/> N/A	Structural Steel <input type="text"/> N/A	Lightning protection <input type="text"/> N/A
Oil installation pipes <input checked="" type="checkbox"/>	Please State Other incoming service(s) <input type="text"/> N/A		66 Amps
			Protective measure(s) against electric shock ADS

Main Switch / Switch-Fuse / Circuit-Breaker / RCD					
Location	<input type="text"/> Main Hall side entrance		Current rating	<input type="text"/> 125 A	
Type BS(EN)	<input type="text"/> 60947-3	No of poles	<input type="text"/> 3	Fuse/Device rating or setting	<input type="text"/> 100 A
Supply Conductors material	<input type="text"/> Copper	Supply Conductors csa	<input type="text"/> 25 mm ²	Voltage rating	<input type="text"/> 400 V
				if RCD main switch	
				Rated residual operation current, $I_{\Delta n}$	<input type="text"/> N/A mA
				Rated time delay	<input type="text"/>
				RCD Operating time at, $I_{\Delta n}$	<input type="text"/> ms

K. Observations		
Referring to the attached schedule(s) of Inspection and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection and testing section.		
No remedial action is required.	<input type="text"/> N/A	The following observations are made <input checked="" type="checkbox"/>
Item No	Observations	Code
1	Loose unsupported cabling to DB2 & DB2A	C3
2	Access to Live parts due to open enclosures at DB2 & DB2A	C2
3	Joints in DB1 NOT supported or insulated	C3
4	Main supply cabling not colour coded	C2
5	DB2 & DB2A not fire rated	C3
--Observations continue on continuation sheet(s)--		
One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.		
C1 - Danger present. Risk of injury. Immediate remedial action required	<input type="text"/> 0	
C2 - Potentially dangerous - urgent remedial action required	<input type="text"/> 7	
C3 - Improvement recommended	<input type="text"/> 20	
FI - Further investigation required without delay	<input type="text"/> 2	

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY

GL000000120 - Master

Note: this form is suitable for many types of smaller installations not exclusively domestic.

Item No	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
Item No	Description										Outcome	Comments		
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT													
1.1	Condition of service cable										✓	No		
1.2	Condition of Service head										✓	No		
1.3	Condition of distributor's earthing arrangement										✓	No		
1.4	Condition of meter tails - Distributor/Consumer										✓	No		
1.5	Condition of metering equipment										✓	No		
1.6	Condition of Isolator (where present)										✓	No		
2.0	PRESENCE OF ADEQUATE ARRANGEMENTS FOR PARALLEL OR SWITCHED ALTERNATIVE SOURCES										N/A	No		
3.0	EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)													
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)										✓	No		
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)										N/A	No		
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)										✓	No		
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)										✓	No		
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)										✓	No		
3.6	Confirmation of main protective bonding conductor sizes (544.1)										✓	No		
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)										✓	No		
3.8	Accessibility and condition of other protective bonding connections (543.3.2)										✓	No		
4.0	CONSUMER UNIT (S) / DISTRIBUTION BOARD(S)													
4.1	Adequacy of working space / accessibility to consumer unit / distribution board (132.12; 513.1)										✓	No		
4.2	Security of fixing (134.1.1)										✓	No		
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)										C3 (see section K)	No		
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)										C3 (see section K)	No		
4.5	Enclosure not damaged/deteriorated so as to impair safety (Regulation 621.2 (iii))										✓	No		
4.6	Presence of linked main switch (as required by 537.1.4)										N/A	No		
4.7	Operation of main switch (functional check) (612.13.2)										✓	No		
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2)										✓	No		
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)										C3 (see section K)	No		
4.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board (514.12.2)										✓	No		
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14)										C3 (see section K)	No		
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board (514.15)										N/A	No		
4.13	Presence of other required labelling (please specify)(Section 514)										N/A	No		
4.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating)(421.1.3)										✓	No		
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.2)										✓	No		
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.1; 522.8.11)										C3 (see section K)	No		
4.17	Protection against electromagnetic effects where cables enter consumer unit / distribution board / enclosures (521.5.1)										N/A	No		
4.18	RCD(s) provided for fault protection – includes RCBOs(411.4.9; 411.5.2; 531.2)										✓	No		
4.19	RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)										✓	No		
4.20	Confirmation of indication that SPD is functional (534.2.8)										N/A	No		
4.21	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure (526.1)										N/A	No		
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)										N/A	No		
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)										N/A	No		
5.0	FINAL CIRCUITS													
5.1	Identification of conductors (514.3.1)										C3 (see section K)	No		
5.2	Cables correctly supported throughout their run (522.8.5)										C3 (see section K)	No		
5.3	Condition of insulation of live parts (416.1)										✓	No		

CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY CONTINUED


GL00000120 - Master

Note: this form is suitable for many types of smaller installations not exclusively domestic.

Item No	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Further investigation	FI	Not verified	N/V	Limitation	LIM	Not applicable	N/A
Item No	Description										Outcome	Comments		
5.0	FINAL CIRCUITS (Continued)													
5.4.0	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)										C3 (see section K)	No		
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)										N/A	No		
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)										✓	No		
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)										N/A	No		
5.7	Adequacy of protective devices; type and rated current for fault protection (411.3)										N/A	No		
5.8	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)										N/A	No		
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)										N/A	No		
5.10	Concealed cables installed in prescribed zones (see section D. Extent and limitations) (522.6.202)										N/A	No		
5.11	Cables concealed under floors, above ceilings or in walls / partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.204)										N/A	No		
5.12.0	Provision of additional protection by RCD not exceeding 30mA													
5.12.1	For all socket-outlets of rating 20 A or less, unless an exception is permitted (411.3.3)										✓	No		
5.12.2	For supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)										✓	No		
5.12.3	For cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)										N/A	No		
5.12.4	For cables concealed in walls / partitions containing metal parts regardless of depth (522.6.203)										✓	No		
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)										N/A	No		
5.14	Band II Cables segregated / separated from Band I cables (528.1)										N/A	No		
5.15	Cables segregated / separated from communications cabling (528.2)										N/A	No		
5.16	Cables segregated / separated from non-electrical services (528.3)										N/A	No		
5.17.0	Termination of cables at enclosures – indicate extent of sampling in Section D of the report (Section 526)													
5.17.1	Connections soundly made and under no undue strain (526.6)										✓	No		
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)										C3 (see section K)	No		
5.17.3	Connections of live conductors adequately enclosed (526.5)										C3 (see section K)	No		
5.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc...) (522.8.5)										C3 (see section K)	No		
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2 (iii))										C3 (see section K)	No		
5.19	Suitability of accessories for external influences (512.2)										N/A	No		
5.20	Adequacy of working space / accessibility to equipment (132.12; 513.1)										N/A	No		
5.21	Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.2)										✓	No		
6.0	LOCATION(S) CONTAINING A BATH OR SHOWER													
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)										✓	No		
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)										N/A	No		
6.3	Shaver sockets comply with BS EN 61558-2-5 formally BS 3535 (701.512.3)										N/A	No		
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671: 2008 (701.415.2)										✓	No		
6.5	Low Voltage (e.g. 230 volts) socket outlets at least 3m from Zone 1 (701.512.3)										✓	No		
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)										✓	No		
6.7	Suitability of accessories and control gear etc. for a particular zone (701.512.3)										✓	No		
6.8	Suitability of current-using equipment for particular position within the location (701.55)										✓	No		
7.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS													
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied).									Number of locations	0	No		

Inspected By

Name: M A Jones Date: 09/11/2016

Signature: 

Board Details	
TO BE COMPLETED IN EVERY CASE Location of Distribution Board: Side elevation Main Hall Distribution board designation: DB 1	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION Supply to distribution board is from: _____ No of phases: _____ Nominal Voltage: _____ V Overcurrent protective device for the distribution circuit Type BS(EN): _____ Rating: _____ A Associated RCD (if any) BS(EN): _____ RCD No of Poles: _____ RCD Rating: _____ mA

Circuit Details														
Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD		Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δn		
1/TP	Stage supply	O	B	1	16	16	0.4	60898 MCB	C	63	10	N/A	0.35	
2/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	
2/L2	Car park lighting	F	D	1	6	2.5	0.4	60898 MCB	B	16	10	N/A	2.73	
2/L3	Sub Mains(DB 2)	A	B	2	16	10	0.4	60898 MCB	C	63	10	N/A	0.35	
3/TP	Sub Mains(DB 3)	F	B	1	10	10	0.4	60898 MCB	C	50	10	N/A	0.44	
4/L1	External sockets front	F	C	2	4	4	0.4	61009 RCD/RCBO	C	16	10	30	1.37	
4/L2	External sockets H/L	F	C	2	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09	
4/L3	Sub Mains(DB 4)	F	D	1	16	16	0.4	60898 MCB	C	40	10	N/A	0.55	

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of Distribution Board Main Hall Facing Cupboard	Supply to distribution board is from SubMains(DB 1, 2/L3)
Distribution board designation DB 2	No of phases 1 Nominal Voltage 230 V Overcurrent protective device for the distribution circuit Type BS(EN) 60898 MCB C Rating 63 A
	Associated RCD (if any) BS(EN) N/A RCD No of Poles N/A RCD Rating N/A mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δn	
1/L3	Hall high level lights LHS	A	C	4	6	2.5	0.4	60898 MCB	B	32	10	N/A	1.37
2/L3	Hall high level lights RHS	A	C	4	6	2.5	0.4	60898 MCB	B	32	10	N/A	1.37
3/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	Prep area sockets	A	C	2	2.5	1	0.4	60898 MCB	B	16	10	N/A	2.73
5/L3	Main hall EM lights LHS	A	C	6	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
6/L3	Main hall EM lights RHS	A	C	8	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
7/L3	Immersion Heater	A	C	1	2.5	1	0.4	60898 MCB	B	16	10	N/A	2.73
8/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	Side spot lights Hall	A	C	2	1	1	0.4	60898 MCB	B	6	10	N/A	7.28
13/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	Mini spots wall mounted	A	C	8	2.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
15/L3	Bar/store/stage RHS lights	A	C	17	1	1	0.4	60898 MCB	B	10	10	N/A	4.37
16/L3	Fire alarm supply	H	C	1	2.5	2.5	0.4	60898 MCB	B	20	10	N/A	2.19

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Zs **0.32** Ω Operating times of associated RCD (if any) At I Δ_n **N/A** ms
 Ipf **1.543** kA At 5I Δ_n **N/A** ms
 Correct supply polarity confirmed Phase sequence confirmed (where appropriate)

Earth fault loop impedance **101368647** meggar RCD **101368647** meggar
 Insulation resistance **101368647** meggar Other **N/A**
 Continuity **101368647** meggar Other **N/A**

Details of circuits and/or equipment vulnerable to damage

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polarity	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ _n	At 5I Δ _n	Test button operation	
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)	(R ₂)	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L3	N/A	N/A	N/A	0.20	N/A	N/A	200	200	200	✓	0.54	N/A	N/A	N/A	NO
2/L3	N/A	N/A	N/A	0.22	N/A	N/A	200	200	200	✓	0.55	N/A	N/A	N/A	NO
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3	N/A	N/A	N/A	0.08	N/A	N/A	200	200	200	✓	0.40	N/A	N/A	N/A	NO
5/L3	N/A	N/A	N/A	0.36	N/A	N/A	200	200	200	✓	0.66	N/A	N/A	N/A	NO
6/L3	N/A	N/A	N/A	0.42	N/A	N/A	200	200	200	✓	0.72	N/A	N/A	N/A	NO
7/L3	N/A	N/A	N/A	0.22	N/A	N/A	200	200	200	✓	0.55	N/A	N/A	N/A	NO
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L3	N/A	N/A	N/A	0.58	N/A	N/A	200	200	200	✓	0.89	N/A	N/A	N/A	NO
13/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/L3	N/A	N/A	N/A	0.62	N/A	N/A	200	200	200	✓	0.95	N/A	N/A	N/A	NO
15/L3	N/A	N/A	N/A	1.39	N/A	N/A	200	200	200	✓	1.69	N/A	N/A	N/A	NO
16/L3	N/A	N/A	N/A	0.02	N/A	N/A	200	200	200	✓	0.34	N/A	N/A	N/A	NO

Tested By

Signature *M A Jones*
 Name **M A Jones**

Position **Test Engineer**
 Date of testing **26/10/2016**

Board Details

TO BE COMPLETED IN EVERY CASE

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Location of Distribution Board

Kitchen annexe

Supply to distribution board is from

SubMains(DB 1, 3/TP)

Associated RCD (if any)

BS(EN)

N/A

RCD No of Poles

N/A

Distribution board designation

DB 3

Overcurrent protective device for the distribution circuit

Type BS(EN)

60898 MCB C

Rating

50

A

RCD Rating

N/A

mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δ _n	
1/L1	Cooker supply	A	B	1	10	4	0.4	60898 MCB	C	50	10	N/A	0.44
1/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
1/L3	Hand dryer supplies	A	B	3	6	2.5	0.4	60898 MCB	C	20	10	N/A	1.09
2/L1	External sockets	A	B	2	2.5	1	0.4	60898 MCB	C	20	10	N/A	1.09
2/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	Kitchen/wc/shower lights	A	B	13	1.5	1	0.4	60898 MCB	C	10	10	N/A	2.19
3/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Zs Ω Operating times of associated RCD (if any) At I Δ_n ms
 Ipf kA At 5I Δ_n ms
 Correct supply polarity confirmed Phase sequence confirmed (where appropriate)

Earth fault loop impedance RCD
 Insulation resistance Other
 Continuity Other

Details of circuits and/or equipment vulnerable to damage

Blank space for details of circuits and/or equipment vulnerable to damage.

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polarity	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ_n	At 5I Δ_n	Test button operation	
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)	(R ₂)	M Ω	M Ω	M Ω	M Ω			ms	ms		
1/L1	N/A	N/A	N/A	0.005	N/A	N/A	200	200	200	✓	0.33	N/A	N/A	N/A	NO
1/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/L3	N/A	N/A	N/A	0.21	N/A	N/A	200	200	200	✓	0.54	N/A	N/A	N/A	NO
2/L1	N/A	N/A	N/A	0.04	N/A	N/A	200	200	200	✓	0.37	N/A	N/A	N/A	NO
2/L2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	N/A	N/A	N/A	0.53	N/A	N/A	200	200	200	✓	0.89	N/A	N/A	N/A	NO
3/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature Position
 Name Date of testing

Board Details							
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION						
Location of Distribution Board <div style="border: 1px solid black; padding: 5px; width: 150px; margin-bottom: 5px;">Feeder Pillar - Field</div> Distribution board designation <div style="border: 1px solid black; padding: 5px; width: 150px; margin-bottom: 5px;">DB 4</div>	Supply to distribution board is from <div style="border: 1px solid black; padding: 5px; width: 200px; margin-bottom: 5px;">SubMains(DB 1, 4/L3)</div> No of phases <input type="text" value="1"/> Nominal Voltage <input type="text" value="230"/> V Overcurrent protective device for the distribution circuit Type BS(EN) <input type="text" value="60898 MCB C"/> Rating <input type="text" value="40"/> A						
Associated RCD (if any) <table style="width: 100%; margin-top: 10px;"> <tr> <td>BS(EN)</td> <td><input type="text" value="4293 RCD"/></td> </tr> <tr> <td>RCD No of Poles</td> <td><input type="text" value="N/A"/></td> </tr> <tr> <td>RCD Rating</td> <td><input type="text" value="30"/> mA</td> </tr> </table>		BS(EN)	<input type="text" value="4293 RCD"/>	RCD No of Poles	<input type="text" value="N/A"/>	RCD Rating	<input type="text" value="30"/> mA
BS(EN)	<input type="text" value="4293 RCD"/>						
RCD No of Poles	<input type="text" value="N/A"/>						
RCD Rating	<input type="text" value="30"/> mA						

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD		Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I _{Δn}		
1/L3	Socket Cluster 1	O	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667	
2/L3	Socket Cluster 2	O	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667	
3/L3	Socket Cluster 3	O	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667	
4/L3	Socket Cluster 4	O	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667	

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Zs **0.62** Ω Operating times of associated RCD (if any) At I Δ_n **N/A** ms
 Ipf **0.721** kA At 5I Δ_n **N/A** ms
 Correct supply polarity confirmed Phase sequence confirmed (where appropriate)

Earth fault loop impedance **101368647** meggar RCD **101368647** meggar
 Insulation resistance **101368647** meggar Other **N/A**
 Continuity **101368647** meggar Other **N/A**

Details of circuits and/or equipment vulnerable to damage

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polarity	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ _n	At 5I Δ _n	Test button operation	
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)	(R ₂)	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L3	N/A	N/A	N/A	0.03	N/A	N/A	200	200	200	✓	0.69	42.5	22.9	✓	NO
2/L3	N/A	N/A	N/A	0.02	N/A	N/A	200	200	200	✓	0.68	43.1	22.8	✓	NO
3/L3	N/A	N/A	N/A	0.02	N/A	N/A	200	200	200	✓	0.68	42.6	22.9	✓	NO
4/L3	N/A	N/A	N/A	0.03	N/A	N/A	200	200	200	✓	0.69	42.5	22.8	✓	NO

Tested By

Signature

[Signature]

Position

Test Engineer

Name

M A Jones

Date of testing

26/10/2016

Board Details	
TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION
Location of Distribution Board Main Hall facing cupboard	Supply to distribution board is from No of phases 1 Nominal Voltage 230 V
Distribution board designation DB 2A	Overcurrent protective device for the distribution circuit Type BS(EN) Rating A
Associated RCD (if any)	
BS(EN) RCD No of Poles RCD Rating mA	

Circuit Details														
Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD		Max permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δ n		
1/L3	Circuit Not Tested	A	B											
2/L3	Kitchen Sockets	A	B	10	2.5	1	0.4	60898 MCB	B	32	10	30	1.37	
3/L3	FF/servery/rear sockets	A	B	10	2.5	1	0.4	60898 MCB	B	32	10	30	1.37	
4/L3	Door access/bar sockets	A	B	13	2.5	1	0.4	60898 MCB	B	32	10	30	1.37	
5/L3	Main Hall & Stage sockets	A	B	17	2.5	1	0.4	60898 MCB	B	32	10	30	1.37	
6/L3	First floor lights	A	B	5	1.5	1	0.4	60898 MCB	B	6	10	30	7.28	
7/L3	External building lights	A	B	6	1	1	0.4	60898 MCB	B	6	10	30	7.28	
8/L3	Annexe lights	A	B	7	1	1	0.4	60898 MCB	B	6	10	30	7.28	
9/L3	WC/Kit/entrance lights	A	B	11	1	1	0.4	60898 MCB	B	6	10	30	7.28	

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/SWA cables	Mineral insulated cables	Other

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Zs Ω Operating times of associated RCD (if any) At I Δ_n ms
 Ipf kA At 5I Δ_n ms
 Correct supply polarity confirmed Phase sequence confirmed (where appropriate)

Earth fault loop impedance meggar RCD meggar
 Insulation resistance meggar Other
 Continuity meggar Other

Details of circuits and/or equipment vulnerable to damage

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polarity	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ _n	At 5I Δ _n	Test button operation	
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	(R ₁ + R ₂)	(R ₂)	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L3															NO
2/L3	0.24	0.24	0.33	0.09	N/A	N/A	200	200	200	✓	0.42	33.8	11.7	✓	NO
3/L3	0.46	0.46	0.72	0.38	N/A	N/A	200	200	200	✓	0.71	33.8	11.7	✓	NO
4/L3	0.51	0.51	0.66	0.15	N/A	N/A	200	200	200	✓	0.48	33.8	11.7	✓	NO
5/L3	0.66	0.66	0.89	0.37	N/A	N/A	200	200	200	✓	0.70	33.8	11.7	✓	NO
6/L3	N/A	N/A	N/A	0.76	N/A	N/A	200	200	200	✓	1.09	33.8	11.7	✓	NO
7/L3	N/A	N/A	N/A	0.21	N/A	N/A	200	200	200	✓	0.54	33.8	11.7	✓	NO
8/L3	N/A	N/A	N/A	0.63	N/A	N/A	200	200	200	✓	0.96	33.8	11.7	✓	NO
9/L3	N/A	N/A	N/A	0.73	N/A	N/A	200	200	200	✓	1.08	33.8	11.7	✓	NO

Tested By

Signature Position
 Name Date of testing

Observations - section K

Site **Hawkesbury Hospital Hall** ORIGIN

1.0-	Badly Terminated and supported cabling to DB2 & DB2A	C2
2.0-	Open and exposed access to DB3	C2
3.0-	Bad wiring practices at Distribution boards	C2
4.0-	Main cabling to DB3 not colour code	C2
5.0-	DB2 & DB2A Boards not fire rated	C3
6.0-	External Socket fed from DB3 Damaged due to excessive loading	C3
7.0-	Damaged and loose accessories and sockets	C3
8.0-	Damage to external light sensors causing over-ride issues	F/I
9.0-	Unknown cable adjacent pipework in showroom	F/I
10.0-	Damage locking mechanism to feeder pillar DB4	C3
11.0-	Excessive loop reading to sub mains to DB2, Stage and DB4	C2
12.0-	Stage M.C.B feeding 2 single supplies - unit triple poled	C3
13.0-	Unknown sub circuit DB2A cct 1	F/I
14.0-	Existing distribution boards not IP rated	C3
15.0-	Lighting cabling jointed and not fixed behind main switch	C3
16.0-	Termination poorly glanded or/and not fixed	C3
17.0-	Loose cabling to rear external light,wired off local circuit	C3
18.0-	Incorrect sized overcurrent devices at DB3	C3

Hawkesbury Hospital Hall

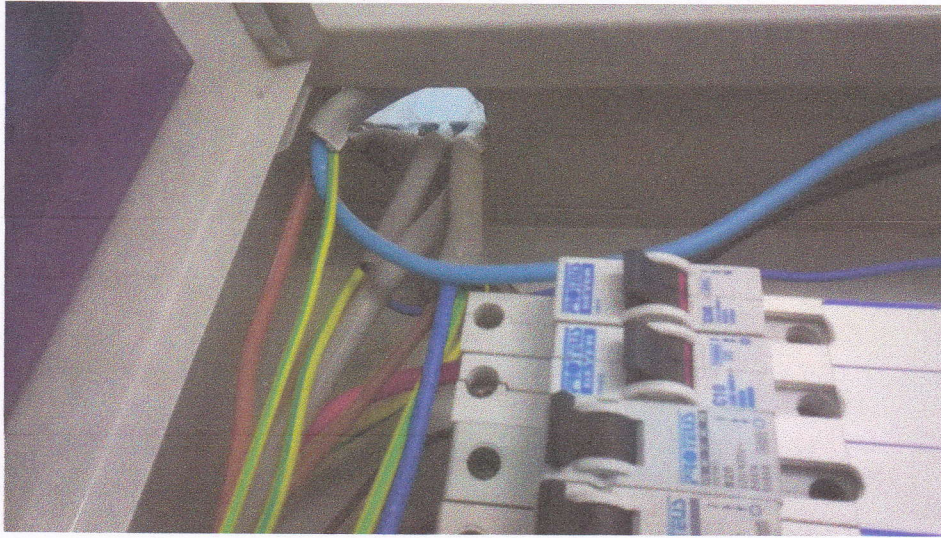
Recommendations

Reference

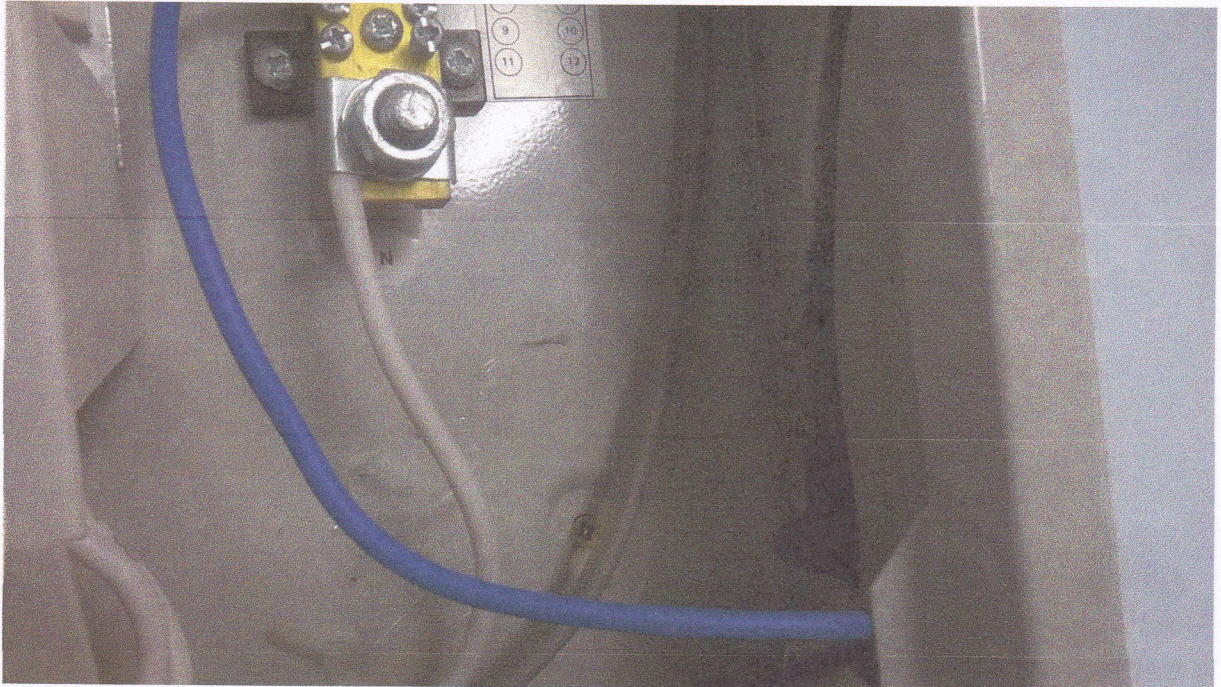
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Origin

- 1.0- Strip out and replace DB2 & DB2, allow for fire rated requirements and rewire back to new devices with residual current protection.
- 2.0- Install correct cable glands and bushes
- 3.0- Tidy wiring in DB1 and DB3 using supports, din rail and enclosures
- 4.0- Disconnect incomer and denote phases, neutral and earthing
- 5.0- As item 1.0
- 6.0- Replace external IP rated socket and rewire back to DB3
- 7.0- Replace all damage sockets in Hall area
- 8.0- Rewire via over ride facility, time clock. contactor and photo cell control
- 9.0- Further investigation required
- 10.0- Replace damage locking mechanism
- 11.0- Remove sub-standard Over current devices and de-rate as necessary
- 12.0- Install separate devices as necessary
- 13.0- Remove unknown circuit from board
- 14.0- As item 1.0
- 15.0- Strip out main hall switch and enclose all connections within deep back box
- 16.0- Replace open trunking to DB2 position and as item 1.0
- 17.0- Re-fix loose cabling along wall section
- 18.0- Install correct devices to DB3



ITEM 2.0/4.0/18.0



ITEM 4.0



ITEM 6.0



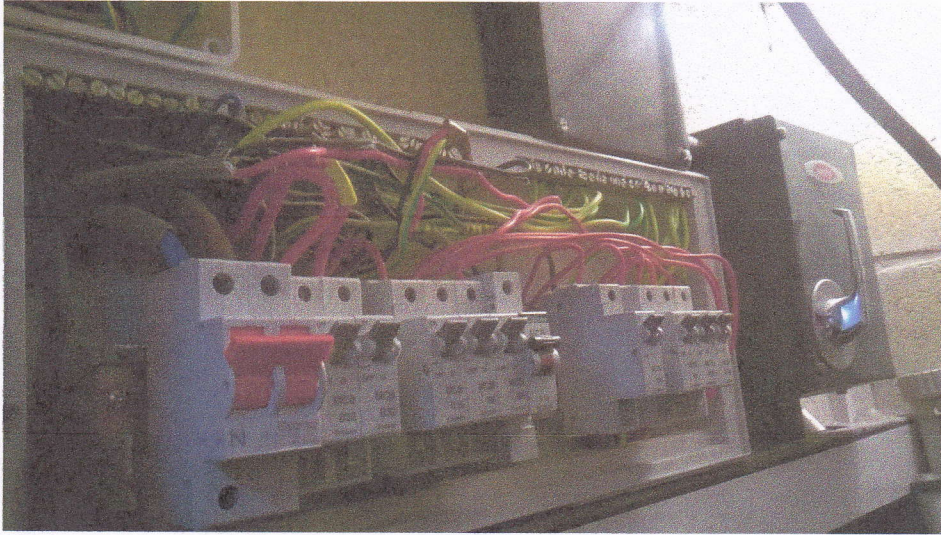
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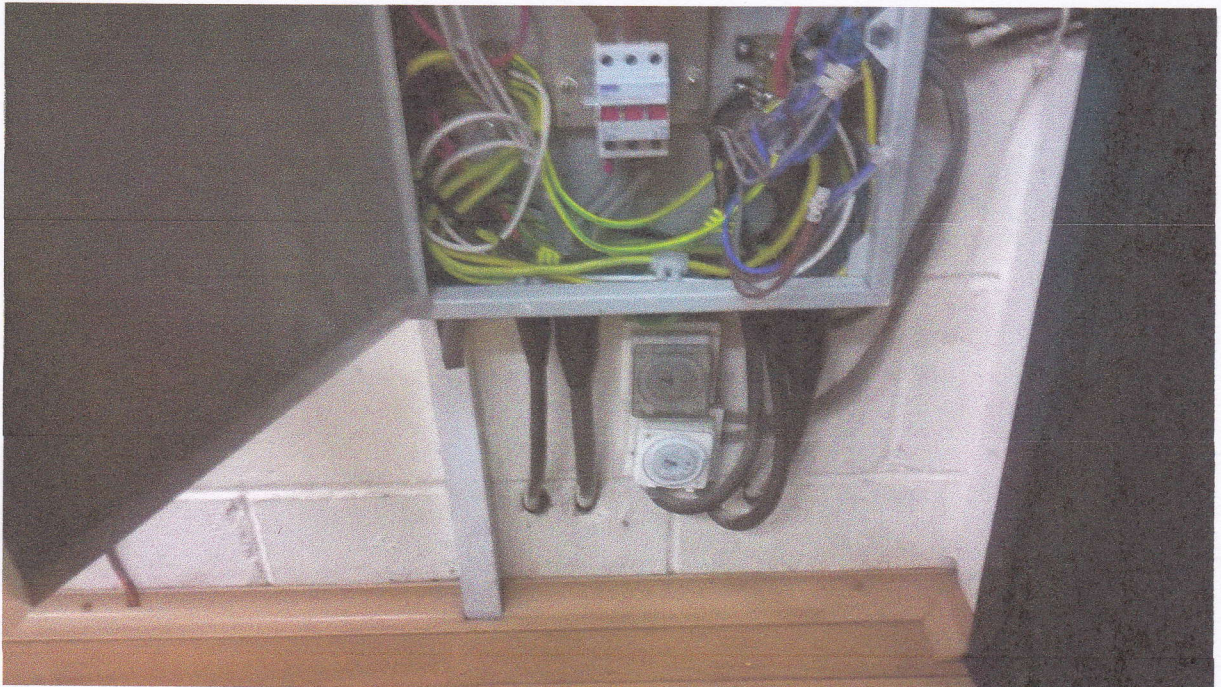
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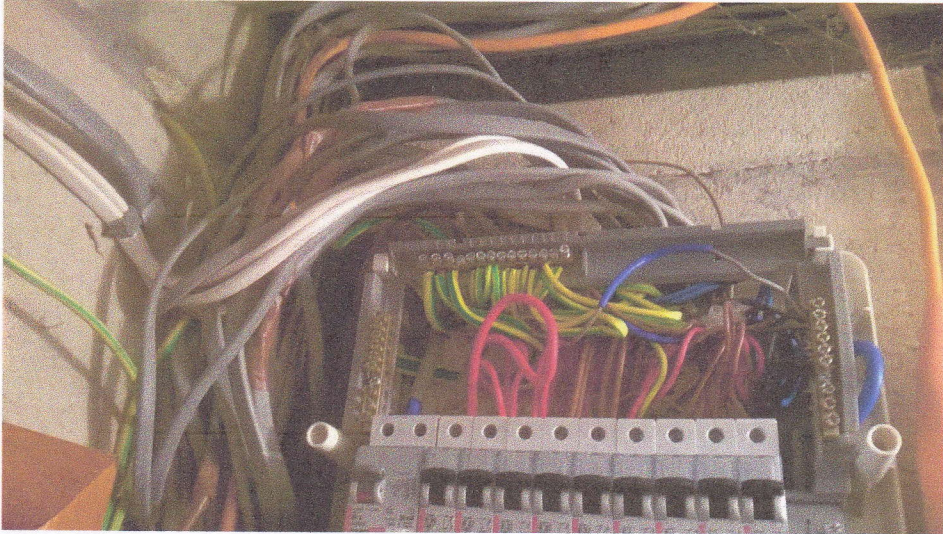
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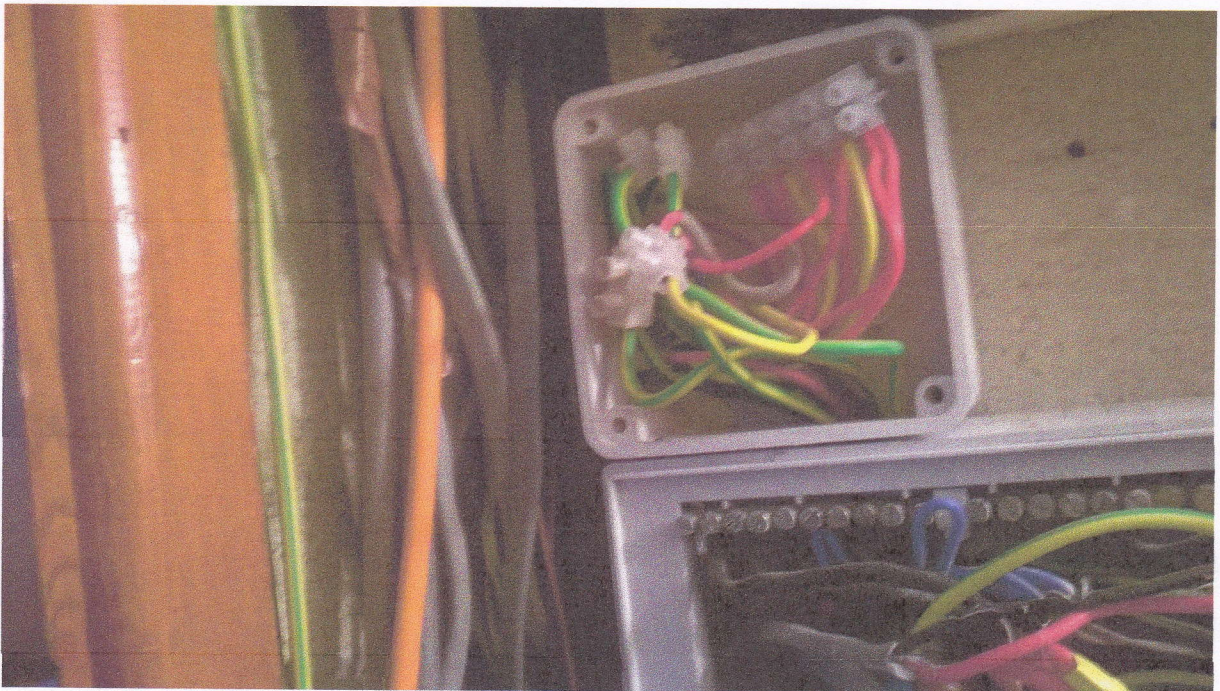
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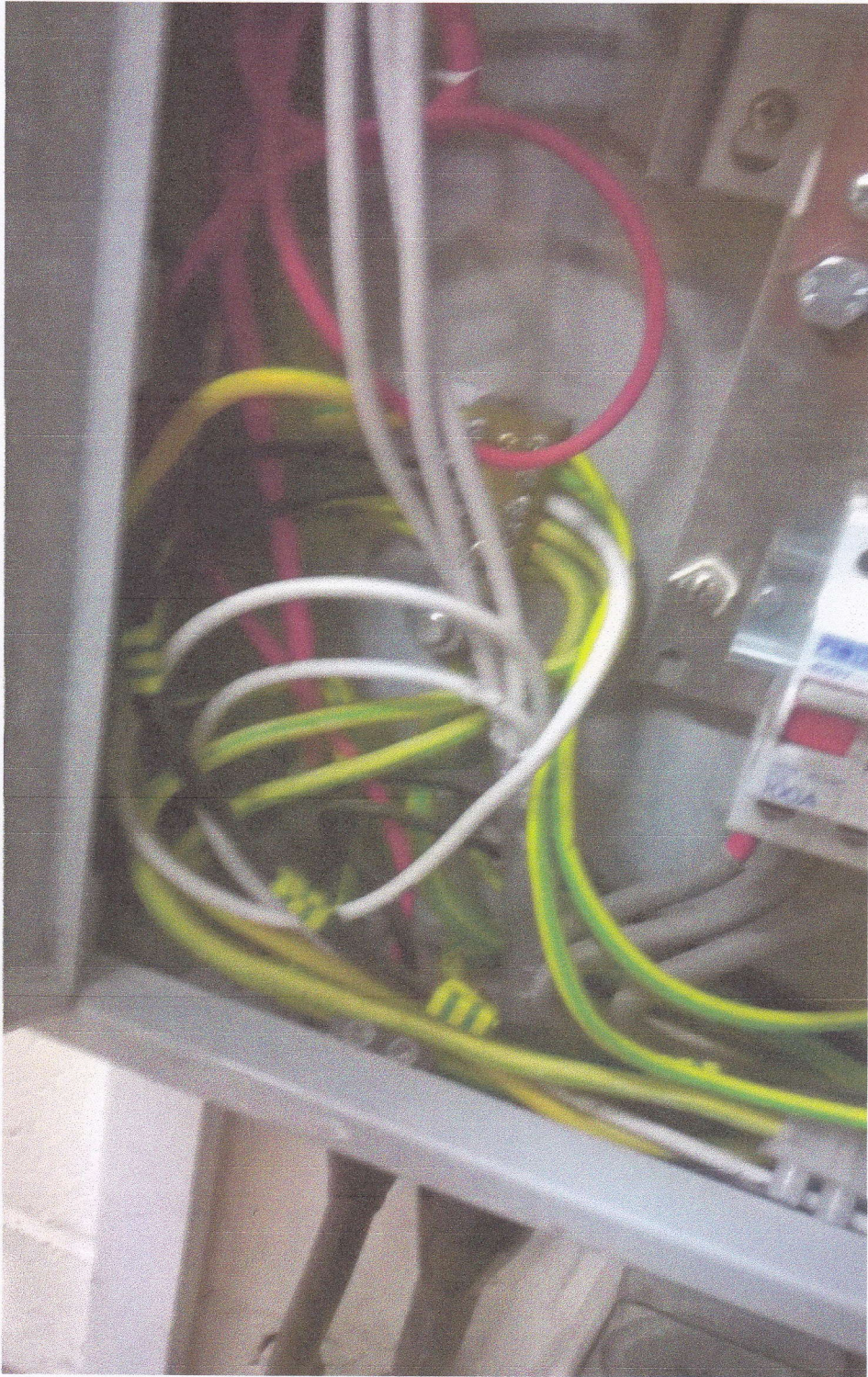
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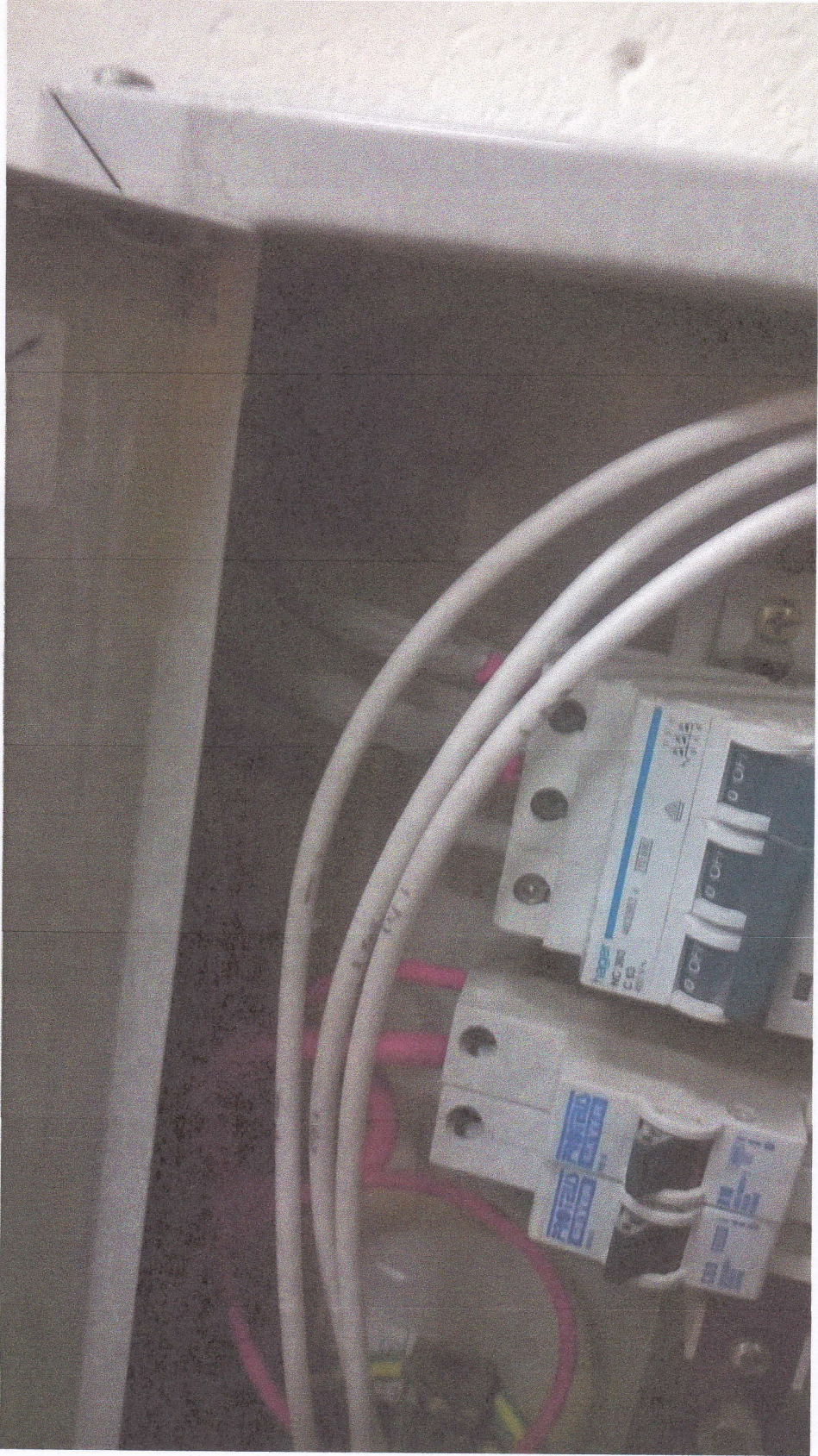
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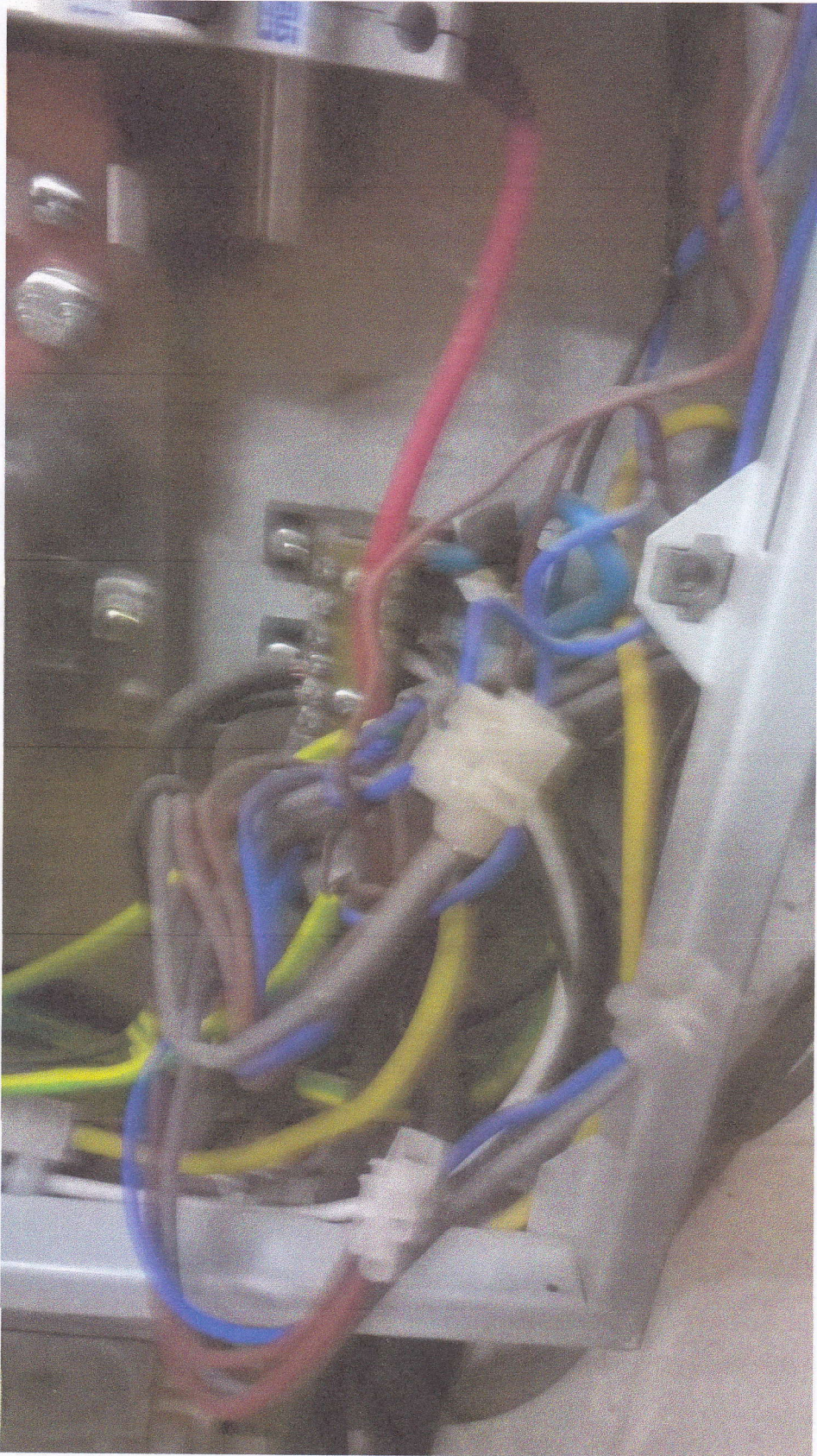
ITEM 16.0/17.0



ITEM 4.0



ITEM - 4.0



ITEMS - 2.0/3.0/16.0



ITEM 9.0



ITEM 10.0

Circuit Chart Board - DB 1



Client Name	Hawkesbury Hospital Hall	Installation Name	Village Hall
Location of board	Side elevation Main Hall	Supplied from	Main Supply
Overcurrent Device	N/A	Rating	N/A
RCD Device	N/A	Rating	N/A
Board Phase(s)	Three Phase		
Nominal Voltage	400 V		
RCD No Of Poles	N/A		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device					
						Live (mm ²)	cpc (mm ²)		BS(EN)	Type No	Rating (A)	Short Circuit Capacity (kA)	RCD Operating Current (mA)	Maximum Zs permitted by BS7671 (Ω)
1	TP	Stage supply	O	B	1	16	16	0.4	60898 MCB	C	63	10	N/A	0.35
2	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2	L2	Car park lighting	F	D	1	6	2.5	0.4	60898 MCB	B	16	10	N/A	2.73
2	L3	Sub Mains(DB 2)	A	B	2	16	10	0.4	60898 MCB	C	63	10	N/A	0.35
3	TP	Sub Mains(DB 3)	F	B	1	10	10	0.4	60898 MCB	C	50	10	N/A	0.44
4	L1	External sockets front	F	C	2	4	4	0.4	61009 RCD/RCBO	C	16	10	30	1.37
4	L2	External sockets H/L	F	C	2	4	4	0.4	61009 RCD/RCBO	C	20	10	30	1.09
4	L3	Sub Mains(DB 4)	F	D	1	16	16	0.4	60898 MCB	C	40	10	N/A	0.55

Comments on report

N/A

Circuit Chart Board - DB 2



Client Name	Hawkesbury Hospital Hall	Installation Name	Village Hall
Location of board	Main Hall Facing	Supplied from	2/L3 DB 1
Overcurrent Device	60898 MCB	Rating	63 A
RCD Device	N/A	Rating	N/A mA
Board Phase(s)	L3		
Nominal Voltage	230 V		
RCD No Of Poles	N/A		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device			RCD Operating Current (mA)	Maximum Zs permitted by BS7671 (Ω)	
						Live (mm ²)	cpc (mm ²)		BS(EN)	Type No	Rating (A)			Short Circuit Capacity (kA)
1	L3	Hall high level lights LHS	A	C	4	6	2.5	0.4	60898 MCB	B	32	10	N/A	1.37
2	L3	Hall high level lights RHS	A	C	4	6	2.5	0.4	60898 MCB	B	32	10	N/A	1.37
3	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4	L3	Prep area sockets	A	C	2	2.5	1	0.4	60898 MCB	B	16	10	N/A	2.73
5	L3	Main hall EM lights LHS	A	C	6	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
6	L3	Main hall EM lights RHS	A	C	8	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
7	L3	Immersion Heater	A	C	1	2.5	1	0.4	60898 MCB	B	16	10	N/A	2.73
8	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
9	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
10	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
11	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
12	L3	Side spot lights Hall	A	C	2	1	1	0.4	60898 MCB	B	6	10	N/A	7.28
13	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
14	L3	Mini spots wall mounted	A	C	8	2.5	1	0.4	60898 MCB	B	6	10	N/A	7.28
15	L3	Bar/store/stage RHS lights	A	C	17	1	1	0.4	60898 MCB	B	10	10	N/A	4.37
16	L3	Fire alarm supply	H	C	1	2.5	2.5	0.4	60898 MCB	B	20	10	N/A	2.19

Circuit Chart

Board - DB 2A



Plant Name	Hawkesbury Hospital Hall	Installation Name	Village Hall	Board Phase(s)	L3
Location of board	Main Hall facing	Supplied from	Not Connected	Nominal Voltage	230 V
Recurrent Device	N/A	Rating	N/A	RCD No Of Poles	N/A
Device	N/A	Rating	N/A		

Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device				RCD Operating Current (mA)	Maximum Zs permitted by BS7671 (Ω)
					Live (mm ²)	cpc (mm ²)		BS(EN)	Type No	Rating (A)	Short Circuit Capacity (kA)		
L3	Unknown	A	B	10	2.5	1	0.4	60898 MCB	B	32	10	30	1.37
L3	Kitchen Sockets	A	B	10	2.5	1	0.4	60898 MCB	B	32	10	30	1.37
L3	FF/servery/rear sockets	A	B	13	2.5	1	0.4	60898 MCB	B	32	10	30	1.37
L3	Door access/bar sockets	A	B	17	2.5	1	0.4	60898 MCB	B	32	10	30	1.37
L3	Main Hall & Stage sockets	A	B	5	1.5	1	0.4	60898 MCB	B	6	10	30	7.28
L3	First floor lights	A	B	6	1	1	0.4	60898 MCB	B	6	10	30	7.28
L3	External building lights	A	B	7	1	1	0.4	60898 MCB	B	6	10	30	7.28
L3	Annexe lights	A	B	11	1	1	0.4	60898 MCB	B	6	10	30	7.28
L3	WC/Kit/entrance lights	A	B										

Circuit Chart Board - DB 3



Client Name	Hawkesbury Hospital Hall	Installation Name	Village Hall
Location of board	Kitchen annexe	Supplied from	3/TP DB 1
Overcurrent Device	60898 MCB	Rating	50 A
RCD Device	N/A	Rating	N/A mA
		Board Phase(s)	Three Phase
		Nominal Voltage	400 V
		RCD No Of Poles	N/A

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device				Maximum Zs permitted by BS7671 (Ω)	
						Live (mm ²)	cpc (mm ²)		BS(EN)	Type No	Rating (A)	Short Circuit Capacity (kA)		RCD Operating Current (mA)
1	L1	Cooker supply	A	B	1	10	4	0.4	60898 MCB	C	50	10	N/A	0.44
1	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
1	L3	Hand dryer supplies	A	B	3	6	2.5	0.4	60898 MCB	C	20	10	N/A	1.09
2	L1	External sockets	A	B	2	2.5	1	0.4	60898 MCB	C	20	10	N/A	1.09
2	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2	L3	Kitchen/wc/shower lights	A	B	13	1.5	1	0.4	60898 MCB	C	10	10	N/A	2.19
3	TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
4	TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Circuit Chart Board - DB 4



Client Name	Hawkesbury Hospital Hall	Installation Name	Village Hall	Board Phase(s)	L3
Location of board	Feeder Pillar - Field	Supplied from	4/L3 DB 1	Nominal Voltage	230 V
Overcurrent Device	60898 MCB	Rating	40 A	RCD No Of Poles	N/A
RCD Device	4293 RCD	Rating	30 mA		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device				Maximum Zs permitted by BS7671 (Ω)	
						Live (mm ²)	cpc (mm ²)		BS(EN)	Type No	Rating (A)	Short Circuit Capacity (kA)		RCD Operating Current (mA)
1	L3	Socket Cluster 1	0	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667
2	L3	Socket Cluster 2	0	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667
3	L3	Socket Cluster 3	0	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667
4	L3	Socket Cluster 4	0	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	30	1667