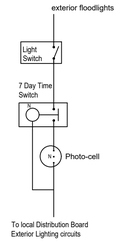
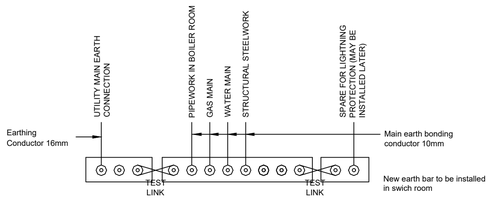


OPEN LIBRARY CABLE SPECIFICATION



EXTERIOR LIGHTING CONTROL DIAGRAM



EARTHING ARRANGEMENTS

Contractor to include to supply and install:
- Ring main sockets wired in 2.5 T&E cable protected by 32A RCBO & AFDD module. No more than 6No twin sockets on a circuit.
- Lighting circuits wired in 1.5mm T&E cable protected by 10A RCBO.
- Door access spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Cooling unit spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Comms cabinet 16A commando socket wired in 2.5mm singles protected by 16A MCB.
- Surge protection device

L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3
1 | 2 | 3 | 4 | 5 | 6
DB-GF-01
GF Server room. Serves Comms room, toilets and entrance.
MCCB 16mm 4 core XLPE/SWA/LSF

Contractor to include to supply and install:
- Ring main sockets wired in 2.5 T&E cable protected by 32A RCBO & AFDD module. No more than 6No twin sockets on a circuit.
- Lighting circuits wired in 1.5mm T&E cable protected by 10A RCBO.
- Door access spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Fixed equipment spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Surge protection device

L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8
DB-GF-02
GF Office Store. Serves office, lobby and children's library area.
MCCB 16mm 4 core XLPE/SWA/LSF

Contractor to include to supply and install:
- Ring main sockets wired in 2.5 T&E cable protected by 32A RCBO & AFDD module. No more than 6No twin sockets on a circuit.
- Lighting circuits wired in 1.5mm T&E cable protected by 10A RCBO.
- Door access spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Fixed equipment spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Surge protection device

L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8
DB-GF-03
B01-GF-016 Stair core. Serves main library area.
MCCB 16mm 4 core XLPE/SWA/LSF

Contractor to include to supply and install:
- Ring main sockets wired in 2.5 T&E cable protected by 32A RCBO & AFDD module. No more than 6No twin sockets on a circuit.
- Lighting circuits wired in 1.5mm T&E cable protected by 10A RCBO.
- Door access spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Fixed equipment spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.
- Surge protection device

L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8
DB-GF-04
B01-GF-014 Elec Cup'd . Serves kitchen, meeting and community room area.
MCCB 16mm 4 core XLPE/SWA/LSF

Contractor to include to supply and install:
- Ring main sockets wired in 2.5 T&E cable protected by 32A RCBO & AFDD module. No more than 6No twin sockets on a circuit.
- Lighting circuits wired in 1.5mm T&E cable protected by 10A RCBO.
- Boiler mechanical control panel wired in XLPE/LSZH cable and protected by MCB. Cable and MCB size to be confirmed.
- Fixed equipment spurs to be wired on 4mm T&E radial circuits protected by 20A RCBO.

L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3 | L1 L2 L3
1 | 2 | 3 | 4 | 5 | 6
DB-B01-01
Basement boiler room.
MCCB 16mm 4 core XLPE/SWA/LSF

RCBO Type C, exterior floodlights | Spare | Spare | Spare | Spare | Spare
6 | - | - | - | -
1 | 2 | 3 | 4 | 5 | 6
DB-EXT
Switch Room B01-GF-023.
MCB 2.5mm LSF singles 1.5mm CPC in trunking/conduit

MCB, 4mm Fire Retardant cable, Fire Alarm | Spare | Spare | Spare | Spare | MCCB, 16mm LSF Singles with 10mm CPC, Surge Protection
63 | 63 | 63 | 63 | 63 | 16 | 10 | - | - | - | - | 63
1 | 2 | 3 | 4 | 5 | L1 | L2 | L3 | L1 | L2 | L3 | 8
6 | 7
SEC1
Switch Room B01-GF-023.
50mm 4C XLPE/SWA/LSZH.
Switch Room B01-GF-023.
Main Fused Switch 100A
25mm singles with 16mm earth
Switch Room B01-GF-023.
Electricity Northwest Supply & Meter - as existing
100

GENERAL INSTALLATION NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PARTICULAR ELECTRICAL SPECIFICATION AND ALL OTHER DRAWINGS.
2. THIS DRAWING IS USED FOR GUIDANCE PURPOSES ONLY. IT IS A GENERIC DRAWING THAT HAS BEEN ADAPTED TO SUIT THE PECULIARITIES OF THE INSTALLATION AND SHOWS THE CONCEPTS RATHER THAN THE EXACT WIRING REQUIRED.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH MANCHESTER CITY COUNCIL STANDARD ELECTRICAL SPECIFICATION FOR ELECTRICAL SERVICES AND ALL ASSOCIATED CIVILS, MECHANICAL OR OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
4. THE EXACT LOCATIONS OF ALL PROPOSED ELECTRICAL INSTALLATIONS/EQUIPMENT SHALL BE FINALISED/AGREED ON SITE WITH THE MAIN CONTRACTOR / CONTRACT ADMINISTRATOR.
5. DISTANCES, CLEARANCES AND CABLE LENGTHS SHOULD BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.
6. ALL PROPOSED ELECTRICAL INSTALLATIONS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH BS7671 (LATEST AMENDMENT).
9. UNLESS OTHERWISE STATED SUB-MAIN CABLES SHALL BE MULTI-CORE XLPE/SWA/LSF ALL HAVING COPPER CONDUCTORS AND MANUFACTURED BY A BASEC APPROVED CABLE MANUFACTURER.
10. EARTHING SHALL BE PROVIDED BY A CABLE CORE AND NOT RELY ON THE ARMOUR.
11. ALL MAIN EQUIPOTENTIAL BONDING AND SUPPLEMENTARY BONDING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE IET WIRING REGULATIONS (BS7671) AND ANY SPECIFIC REQUIREMENT OF THE LOCAL SUPPLY AUTHORITY. ALL ITEMS OF ELECTRICAL DISTRIBUTION EQUIPMENT WITHIN THE CUBICLES AND ALL METALLIC CONTAINMENT SHALL BE BONDED TO THE MAIN EARTHING CONNECTION POINT.
12. SEE MANUFACTURER'S WIRING INSTRUCTIONS, Etc FOR EXACT WIRING DETAILS.
13. CPC'S NOT SHOWN FOR CLARITY PURPOSES. NOT ALL NEUTRAL CONNECTIONS SHOWN FOR CLARITY PURPOSES.
14. RING MAIN CIRCUITS SHALL BE PROTECTED BY A COMBINED RCBO AND AFDD UNITS. WHERE POSSIBLE THE UNITS SHALL BE SINGLE MODULE COMPATIBLE WITH THE DISTRIBUTION BOARD. IF DOUBLE MODULE UNITS ARE USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THE DISTRIBUTION BOARDS ARE SIZED APPROPRIATELY.

REV.	DESCRIPTION	DATE	BY
A	AFDD PROTECTION ADDED	20.06.22	TB

MANCHESTER CITY COUNCIL

Capital Programmes Division

Manchester City Council
PO Box 532, Town Hall
Manchester
M60 2LA

DRAWING STATUS: Information

PROPERTY TITLE: Chorlton District Library, Manchester Road, Chorlton, M21 9PN

UPRN: 010023047970

DFE NO.: 0000

PROJECT TITLE: Open Libraries

DRAWING TITLE: LV Schematic

JOB NO.: LG44705.1

DATE: 30.05.22

REV: A

SCALE: n.t.s

AUTHOR: TB

CHECKED BY

APPROVED BY

DRAWING NO.: MCC-XX-ZZ-DR-E-0070