



Upper Campfield

Liverpool Road, Manchester, M3 4NN

Listed Building Consent ref: 138346/LO/2023

Condition 04

Issue 02 - 09/05/2025

Listed Building Consent

Condition 04

Prior to the commencement of works to install any relevant (internal and external) mechanical and electrical (M & E) installations (including CCTV and lighting) attached to any listed fabric, detailed plans, method statement and specification showing the location, profile, fixing, sections and suitable samples, where necessary shall be submitted for approval in writing by the City Council, as Local Planning Authority. This shall include details of the removal, alterations and repair of the historic fabric of the building.

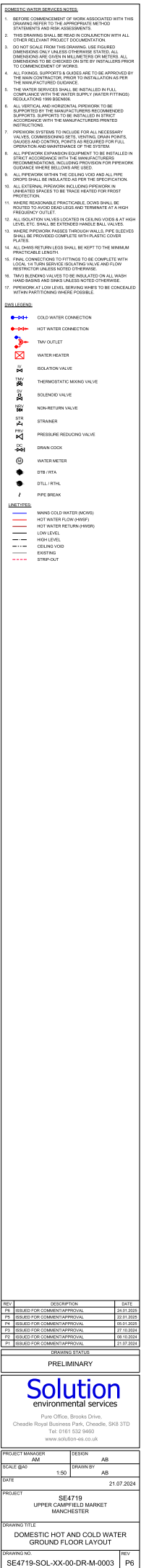
The development shall then be carried out in accordance with the details approved and thereafter be retained as approved throughout the life of the development. Should the M & E no longer be required, they should be removed and the elevations should be made good following a scheme previously approved in writing by the City Council, as Local Planning Authority.

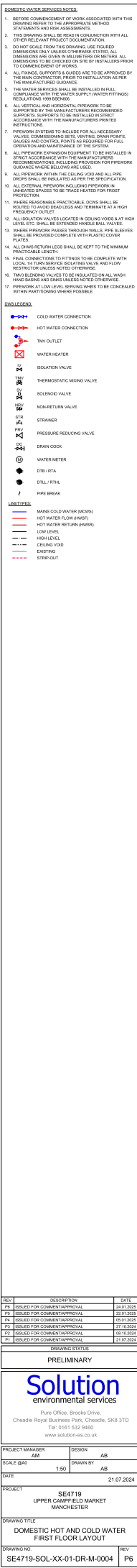
Information provided:

- 01** Solution Mechanical drawings,
- 02** Hayvern Electric drawings,
- 03** Hart lighting schedule, UC_sL
- 04** TJM AC kit hanging proposals
- 05** Gripple wire hanging
- 06** Lindapter flange clamps to existing beams
- 07** Destratification fan clamp fitting
- 08** Photos of mock-up installations
- 09** Exterior light and CCTV fitting

01 Solution Mechanical drawings

SE4719-SOL-XX-00-DR-M-0001 (Ground Floor HVAC Layout) - P8
SE4719-SOL-XX-01-DR-M-0002 (First Floor HVAC Layout) - P10
SE4719-SOL-XX-00-DR-M-0003 (Ground Floor Domestic Services Layout) - P6
SE4719-SOL-XX-01-DR-M-0004 (First Floor Domestic Services Layout) - P6
SE4719-SOL-XX-00-DR-M-0005 (Ground Floor Above Ground Drainage Layout) - P3
SE4719-SOL-XX-01-DR-M-0006 (First Floor Above Ground Drainage Layout) - P4
SE4719-SOL-XX-02-DR-M-0007 (Second Floor HVAC Layout) - P5
SE4719-SOL-XX-02-DR-M-0008 (Second Floor Plant Room Layout) - P5





1:50 0 1m 2m 3m 4m 5m

NEW CONDENSER TO BE MOUNTED ON FLEXI FEET MOUNTS. CONDENSERS INSTALLED WITHIN DRIP TRAY.

32Ø CONDENSATE DRAIN DROPS TO FLOOR BELOW. HOLE THROUGH SLAB TO BE SUITABLY FIRE STOPPED.

RINGFENCED LOCATION FOR FUTURE TENANT PLANT.

NEW CONDENSER TO BE MOUNTED ON BIG FOOT FRAME. CONDENSERS INSTALLED WITHIN DRIP TRAY.

NEW PIPEWORK TRAY TO BE MOUNTED TO FLOOR ON FLEXI FEET. ROUTES TO RISER.

RINGFENCED LOCATION FOR FUTURE TENANT PLANT.

PIPEWORK DROPS THROUGH RISER TO SERVE BC BOX'S ON EACH LEVEL.

PLANT ROOM LOW LEVEL
SCALE - 1:50

EXHAUST LOUVRES CONNECT TO EXISTING LOUVRE BAND AT HIGH LEVEL IN PLANT ROOM.

INTAKE LOUVRES CONNECT TO EXISTING LOUVRE BAND AT HIGH LEVEL IN PLANT ROOM.

DUCTWORK DROPS TO JET DIFFUSERS MOUNTED TO DUCT AT HIGH LEVEL ON ATRIUM WALL. EXTRACT SETS BELOW SUPPLY. DUCTS THROUGH WALL AT SAME LEVEL EVENLY SPACED.

HRU'S INSTALLED AT HIGH LEVEL. MAINTENANCE ACCESS AWAY FROM CONDENSERS.

200Ø SUPPLY AND EXTRACT RISE FROM BELOW TO HIGH LEVEL IN PLANT ROOM TO CONNECT TO HRU. 200Ø TOILET EXTRACT FROM BELOW TO HIGH LEVEL IN PLANT ROOM TO CONNECT TO NEW EXTRACT FAN.

PLANT ROOM HIGH LEVEL
SCALE - 1:50

VENTILATION NOTES:

- BEFORE COMMENCEMENT OF WORK ASSOCIATED WITH THIS DRAWING REFER TO THE APPROPRIATE METHOD STATEMENTS AND RISK ASSESSMENTS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DOCUMENTATION.
- DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY UNLESS OTHERWISE STATED. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS OR METERS. ALL DIMENSIONS TO BE CHECKED ON SITE BY INSTALLERS PRIOR TO COMMENCEMENT OF WORKS.
- ALL FIXINGS, SUPPORTS & GUIDES ARE TO BE APPROVED BY THE MAIN CONTRACTOR. PRIOR TO INSTALLATION AS PER THE MANUFACTURED GUIDANCE.
- ALL DUCTWORK SHALL BE MANUFACTURED, INSTALLED, TESTED & COMMISSIONED IN STRICT ACCORDANCE WITH DW144, DW143, DW151, DW171, DW/TM2, DW/TM3, TR/17 & CIBSE COMMISSIONING CODES.
- ACCESS DOORS SHALL BE PROVIDED ADJACENT ALL FIRE DAMPERS, VOLUME CONTROL DAMPERS AND HEATER BATTERIES, EITHER SIDE OF AIR TURNS & AT LEAST 4M INTERVALS ON DUCT ROUTES.
- ALL DUCT RUNS & DIFFUSER POSITIONS MUST BE CHECKED & SET OUT AGAINST FULLY DETAILED CEILING AND FLOOR LAYOUTS. STRUCTURAL ENGINEERING & ELECTRICAL SERVICE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED OUT ON SITE PRIOR TO THE INSTALLATION BEING EXECUTED.
- ALL SUPPLY AIR (AND EXTRACT WHERE ON A HEAT RECOVERY SYSTEM) DUCTWORK WITHIN RISERS AND PLANT SPACES AND CEILING VOIDS TO BE INSULATED. INTAKE AND EXHAUST DUCTWORK TO BE INSULATED AND VAPOUR SEALED AGAINST CONDENSATION WHERE LOCATED IN HEATED INTERNAL SPACES.
- ALL BRANCH CONNECTIONS SHALL BE PROVIDED WITH VCDs TO FACILITATE BALANCING IN ACCORDANCE WITH ALL RELEVANT CIBSE CODES AND GOOD PRACTICES.
- ALL LOUVRES AND ROOF COWLS SHALL BE FITTED WITH BIRD MESH AND INSECT SCREENS UNLESS OTHERWISE SPECIFIED.
- FIRE DAMPERS TO BE COMPLETE WITH BUILT-IN FRAMES FOR FIXING TO THE BUILDING STRUCTURE AS REQUIRED, IN ACCORDANCE WITH THE CURRENT ARCHITECTS FIRE STRATEGY DRAWINGS.
- ALL DOOR TRANSFER GRILLES AND DOOR UNDERCUTS TO BE PROVIDED AS NECESSARY FOR VENTILATION RETURN AIR PATH. THE CONTRACTOR WILL NEED TO TAKE IN CONSIDERATION OF ACOUSTIC AND FIRE STRATEGY REPORT TO SATISFY ALL REQUIREMENTS.
- ALL DUCTWORK TO BE OF GALVANISED STEEL CONSTRUCTION.
- FLEXIBLE VENTILATION DUCTWORK SHALL ONLY BE USED FOR THE FINAL CONNECTIONS TO GRILLES. ALL EXCESS FLEXIBLE DUCTWORK SHALL BE CUT BACK TO A MINIMUM OF 500mm WHEN MAKING FINAL CONNECTIONS.
- ALL FANS AND VENTILATION UNITS SHALL BE INSTALLED WITHIN ACCESSIBLE LOCATIONS WITH DUE REGARD TO THE MANUFACTURER'S MAINTENANCE SPACE RECOMMENDATIONS.
- AS PER DW144 ALL PLENUM BOXES AND AIR TERMINALS SHALL BE INDEPENDENTLY SUPPORTED DIRECT TO SOFFIT.
- ALL ROOF EQUIPMENT TO BE INSTALLED ON BIGFOOT SYSTEM ISOLATED FROM ROOF STRUCTURE.

REV	DESCRIPTION	DATE
P5	ISSUED FOR COMMENT/APPROVAL	22.01.2024
P4	ISSUED FOR COMMENT/APPROVAL	05.01.2024
P3	ISSUED FOR COMMENT/APPROVAL	27.10.2024
P2	ISSUED FOR COMMENT/APPROVAL	08.10.2024
P1	ISSUED FOR COMMENT/APPROVAL	01.08.2024

DRAWING STATUS

PRELIMINARY

Solution
environmental services

Pure Office, Brooks Drive,
Cheadle Royal Business Park, Cheadle, SK8 3TD
Tel: 0161 532 9460
www.solution-es.co.uk

PROJECT MANAGER AM	DESIGN AB
SCALE @A2 1:50	DRAWN BY AB
DATE	01.08.2024

PROJECT	SE4719 UPPER CAMPFIELD MARKET MANCHESTER
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DRAWING TITLE	PLANT ROOM HVAC LAYOUT
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DRAWING NO. SE4719-SOL-XX-02-DR-M-0008	REV P5
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02 Hayvern Electrical drawings

C4488-E002-SMALL-POWER-GROUND-FLOOR-Rev.C4

C4488-E003-SMALL-POWER-MEZZANINE-Rev.C4

C4488-E004-CONTAINMENT-GROUND-FLOOR-Rev.C4

C4488-E005-CONTAINMENT-MEZZ-FLOOR-Rev.C4

LIGHTING-GF & MEZZ-C5-GF-E006

LIGHTING-GF & MEZZ-C4-MEZZ-E007

FIRE-SECURITY--GF & MEZZ - C3-GF - E008

FIRE-SECURITY--GF & MEZZ - C3-MEZZ- E009

NOTICE

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GENERAL LEGEND

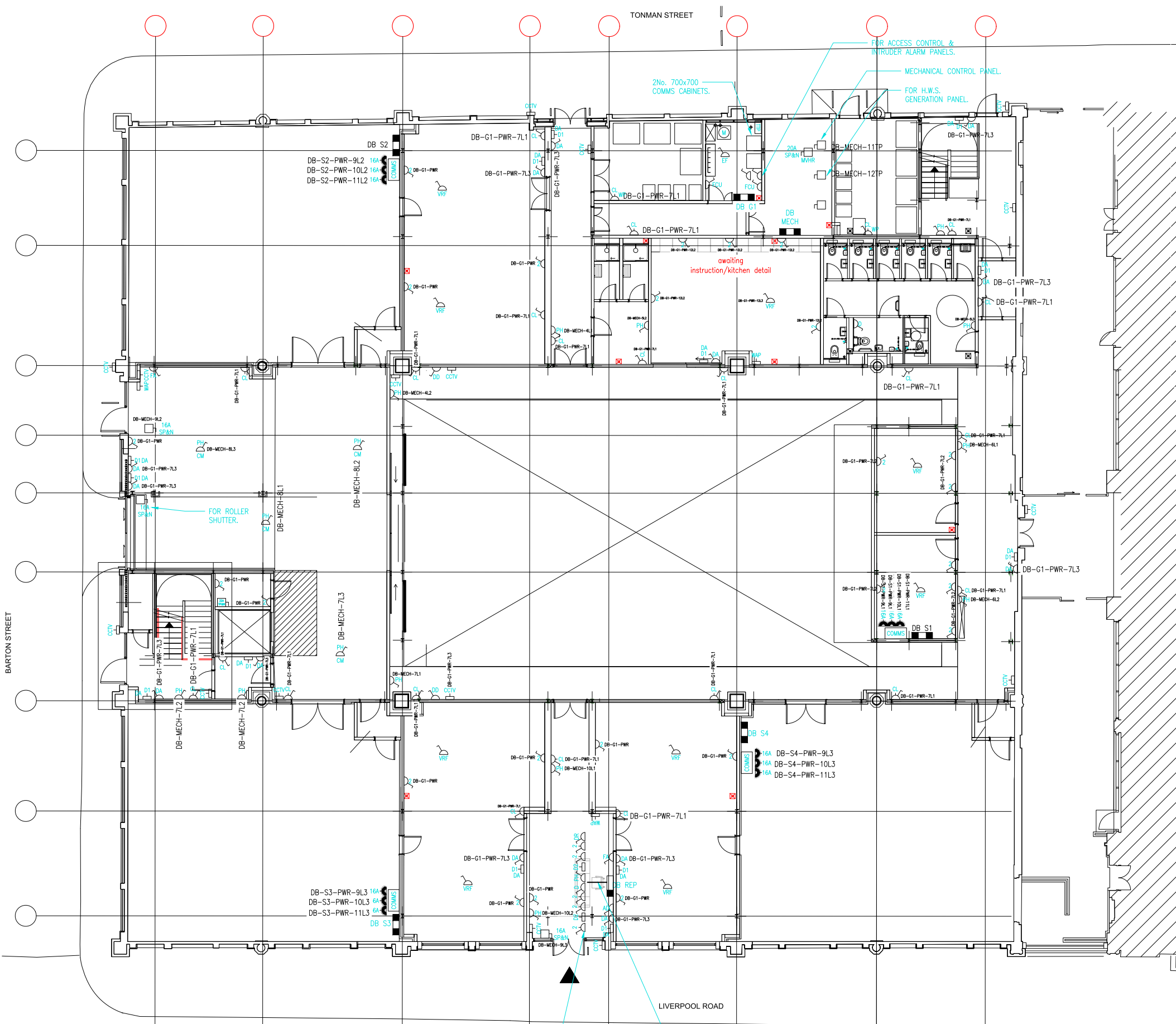
L/L	ITEM MOUNTED AT LOW LEVEL.
H/L	ITEM MOUNTED AT HIGH LEVEL.
C/V	ITEM MOUNTED IN CEILING VOID.
R/V	ITEM MOUNTED IN ROOF VOID.
F/V	ITEM MOUNTED IN FLOOR VOID.
W/T	ITEM MOUNTED AT WORKTOP LEVEL.
WP	DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
EX	DENOTES EXISTING TO BE RETAINED.
R	DENOTES EXISTING TO BE RELOCATED.
R.T.A.	RISE TO ABOVE.
R.F.B.	RISE FROM BELOW.
D.F.A.	DROP FROM ABOVE.
D.T.B.	DROP TO BELOW.

ABBREVIATIONS LEGEND

AD	- AUTOMATIC OPENING DOOR.
AMP	- A.V. AMPLIFIER IN CEILING VOID.
CCTV	- CCTV CAMERA MOUNTED IN CEILING VOID.
CH	- COOKER HOOD AT HIGH LEVEL.
D	- DISABLED ALARM MOUNTED IN CEILING VOID.
DA	- DOOR ACCESS CONTROL IN CEILING VOID.
DC	- DOOR CLOSER MOUNTED AT HIGH LEVEL/ IN CEILING VOID.
DD	- DOOR DETENTE IN CEILING VOID.
DR	- DISABLED REFUGE AT HIGH LEVEL.
DW	- DISHWASHER AT LOW LEVEL.
EF	- EXTRACT FAN IN CEILING VOID.
F	- FRIDGE AT LOW LEVEL.
FA	- FIRE ALARM AT HIGH LEVEL WITH LABEL - "FIRE ALARM DO NOT SWITCH OFF"
FCU	- MECHANICAL FAN COIL UNIT CEILING VOID.
FF	- FRIDGE/FREEZER AT LOW LEVEL.
FK	- FLY KILLER AT HIGH LEVEL.
HD	- HAND DRYER MOUNTED AT HIGH LEVEL WITH FLEX OUTLET PLATE BEHIND HAND DRYER FOR FINAL CONNECTION.
HP	- HEAT PUMP UNIT IN CEILING VOID.
HR	- HAIR DRYER AT WORKTOP LEVEL.
HRU	- HEAT RECOVERY UNIT IN CEILING VOID.
IA	- INTRUDER ALARM MOUNTED IN CEILING VOID.
IL	- INDUCTION LOOP IN CEILING VOID.
MCU	- MODE CONTROL UNIT (VRF) IN CEILING VOID.
PH	- ELECTRIC PANEL HEATER AT LOW LEVEL.
RP	- RADIANT PANEL HEATER IN CEILING VOID.
SH	- ELECTRIC SHOWER.
SH	- VRF CASSETTE UNIT.
WB	- WATER BOILER.
WC	- WATER COOLER AT LOW LEVEL.
WH	- WATER HEATER AT LOW LEVEL.

SMALL POWER & DATA LEGEND

TYPE	SINGLE UNSWITCHED SOCKET OUTLET.
TYPE	SINGLE SWITCHED SOCKET OUTLET 'CL' DENOTES CLEANERS SOCKET OUTLET.
TYPE	DOUBLE SWITCHED SOCKET OUTLET. 'USB' DENOTES C/W DOUBLE USB OUTLETS.
TYPE	SINGLE NTE5 OR RJ45 TELEPHONE OUTLET.
TYPE	DOUBLE NTE5 OR RJ45 TELEPHONE OUTLET.
TYPE	SINGLE RJ45 DATA OUTLET. 'SALTO' DENOTES FOR SALTO WIRELESS ROUTERS (DOOR ACCESS CONTROL TO OFFICES).
TYPE	DOUBLE RJ45 DATA OUTLET.
TYPE	SINGLE DATA OUTLET AT HIGH LEVEL FOR WIFI WIRELESS ACCESS POINT.
TYPE	SINGLE DATA OUTLET AT HIGH LEVEL FOR CCTV CAMERA.
TYPE	SWITCHED FUSED CONNECTION UNIT.
TYPE	UNSWITCHED FUSED CONNECTION UNIT.
TYPE	FLEX OUTLET FRONT PLATE.
TYPE	ROTARY LOCKABLE ISOLATOR SIZED AS SHOWN.
TYPE	BS60309 COMMANDO SOCKET OUTLET SIZED AS SHOWN.
TYPE	20A DOUBLE POLE SWITCH WITH NEON INDICATOR WHERE 'g' DENOTES NUMBER OF GANGS. EACH GANG TO BE LABELLED TO STATE EQUIPMENT SUPPLIED.
TYPE	MEDIA PLATE BEHIND TV C/W DOUBLE SWITCHED SOCKET OUTLET, DATA OUTLET AND HDMI OUTLET WIRED TO FLOOR BOX.



Revisions	Description	Ref	Eng	Date
 56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975				
Client	TJM			
Project Title	UPPER CAMPFIELD			
Drawing Title	SMALL POWER GROUND FLOOR			
In Association with	-			
Drawn by	SB	Scales	1:100	
Checked by	DC		(work to figured dimensions)	
Date	20-01-25			
DRG No.	C4488/E002			Rev. C 4

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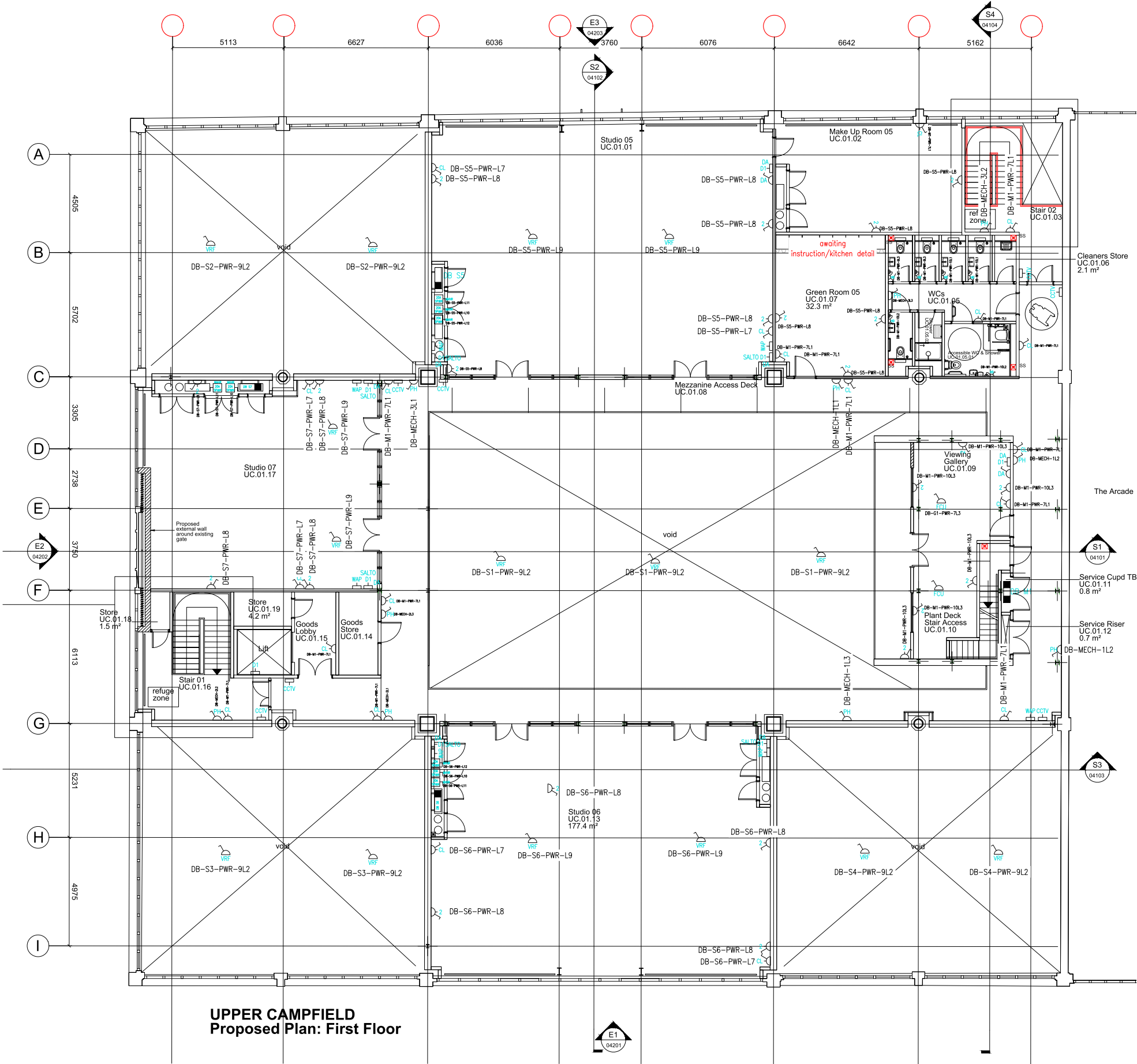
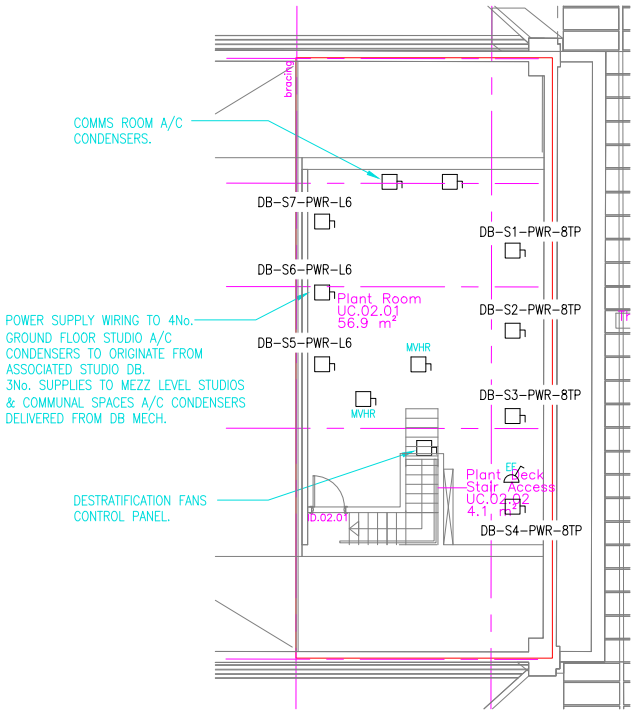
- | | |
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| R | DENOTES EXISTING TO BE RELOCATED. |
| R.T.A | RISE TO ABOVE. |
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SMALL POWER & DATA LEGEND

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GENERAL NOTES

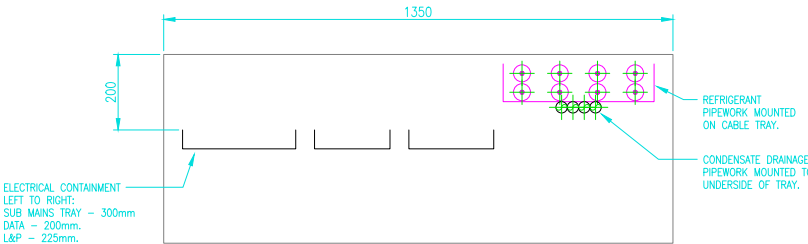
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CONTAINMENT LEGEND

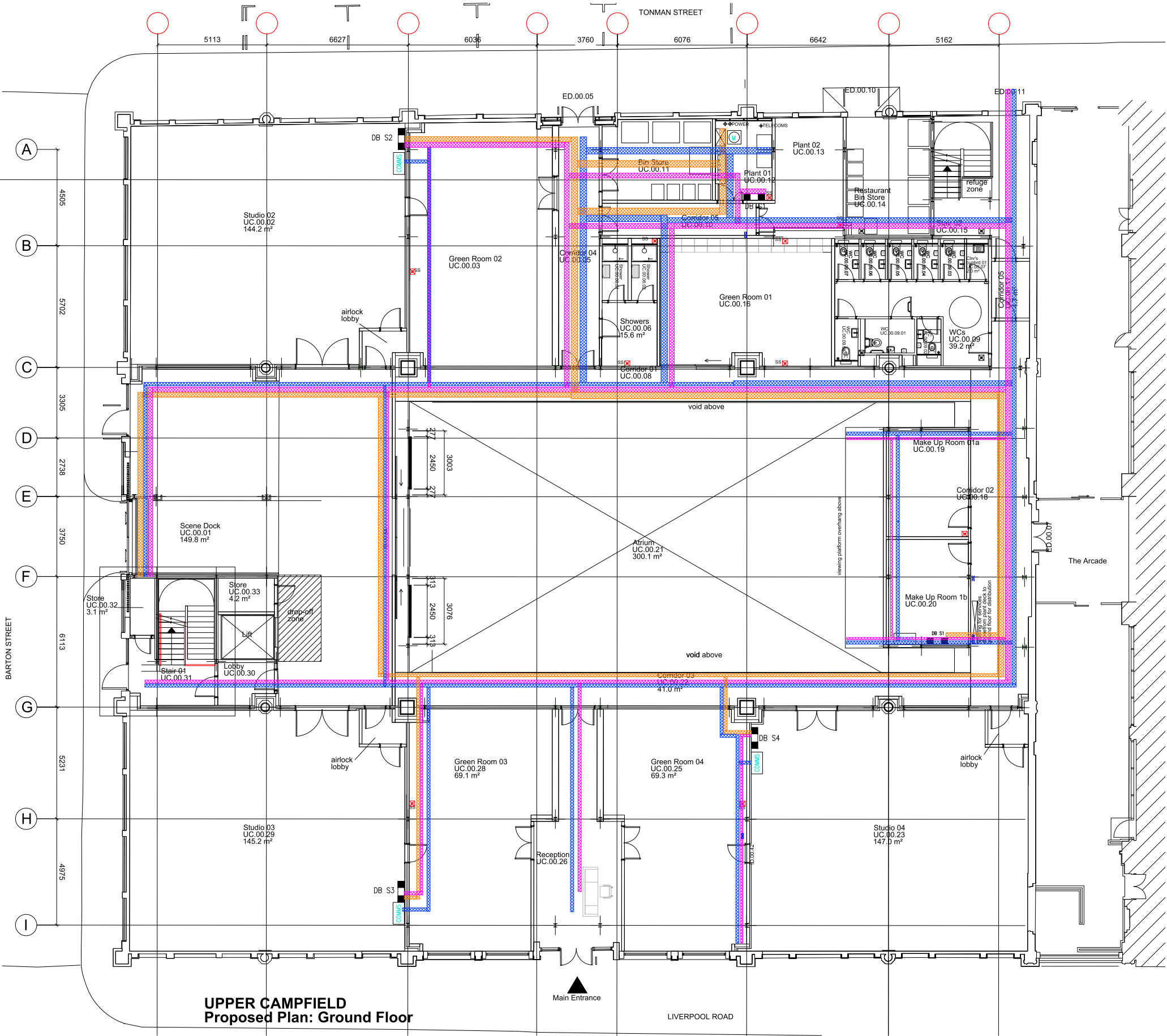
- 100mm (UNLESS INDICATED) LIGHTING & POWER TRAY.
- 225mm (UNLESS INDICATED) SUB MAINS TRAY.
- 150mm (UNLESS INDICATED) BT/DATA/COMMS/FIRE ALARM/SECURITY BASKET WITH DIVIDERS.
- TP&N DISTRIBUTION BOARD.
- SP&N DISTRIBUTION BOARD.
- H.D.H.C. COPPER EARTH BAR.
- CONTAINMENT RISE/DROP.
- SWITCH PANEL.
- LOCKABLE ROTARY ISOLATOR SIZED AS SHOWN.
- REGIONAL ELECTRICITY COMPANY (R.E.C.) CABLE/SERVICE HEAD.
- REGIONAL ELECTRICITY COMPANY (R.E.C.) METER.
- INCOMING TELECOMS TERMINATION POINT.
- DATA/COMMUNICATIONS CABINET.
- DENOTES WEATHERPROOF TYPE.

GENERAL LEGEND

- L/L ITEM MOUNTED AT LOW LEVEL.
- H/L ITEM MOUNTED AT HIGH LEVEL.
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- D.F.A. DROP FROM ABOVE.
- D.T.B. DROP TO BELOW.



INDICATIVE SECTION A-A
SCALE 1 : 10



UPPER CAMPFIELD
Proposed Plan: Ground Floor



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client TJM

Project Title UPPER CAMPFIELD

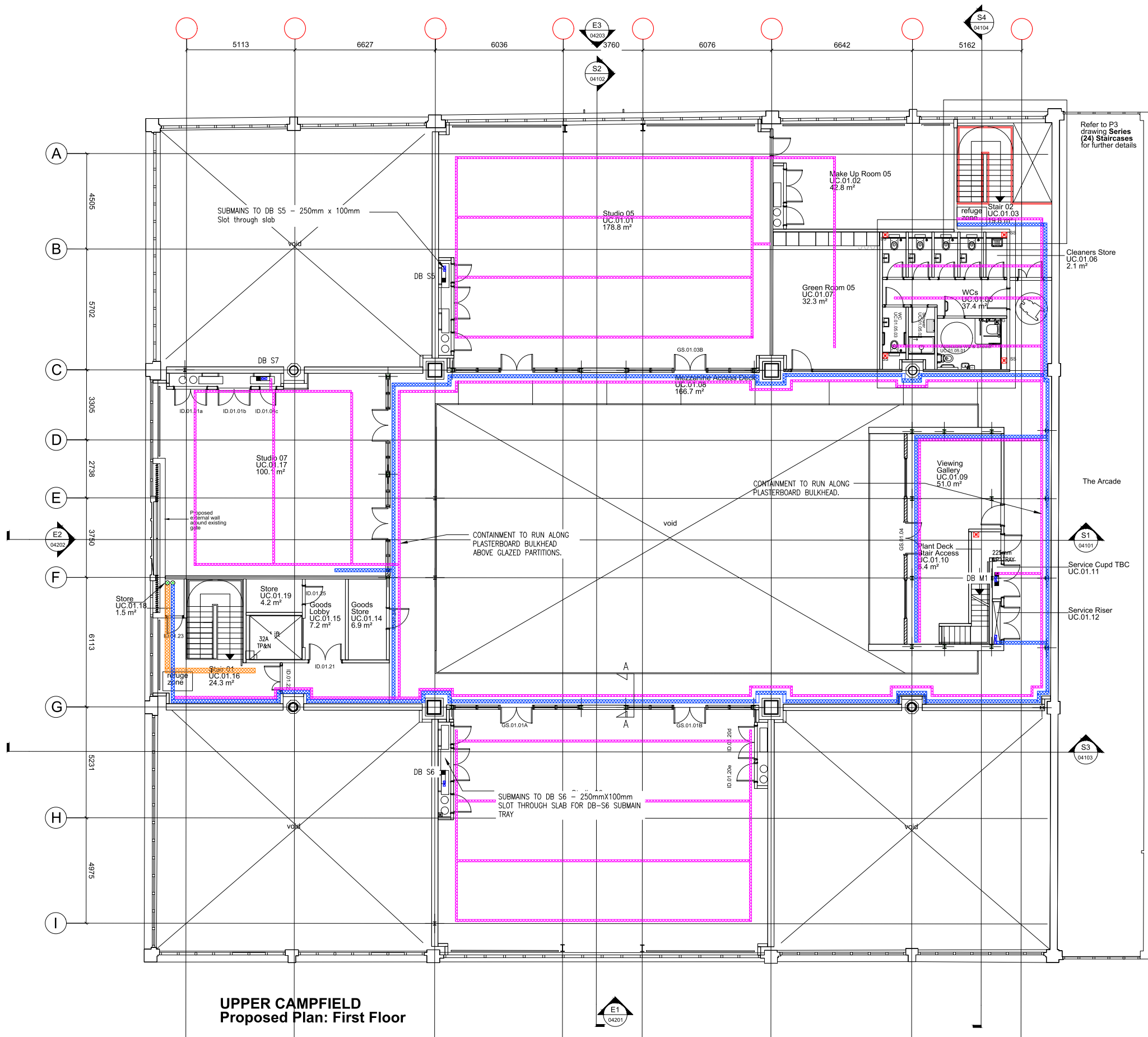
Drawing Title CONTAINMENT
GROUND FLOOR

In Association with -

Drawn by SB Scales 1:100
Checked by DC (work to figured dimensions)
Date 20-01-25
DRG No. C4488/E004 Rev. C4

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UPPER CAMPFIELD
Proposed Plan: First Floor

GENERAL LEGEND

- L/L ITEM MOUNTED AT LOW LEVEL.
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- DATA/COMMUNICATIONS CABINET.
- WP DENOTES WEATHERPROOF TYPE.



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client TJM

Project Title UPPER CAMPFIELD

Drawing Title CONTAINMENT
MEZZ FLOOR

In Association with -

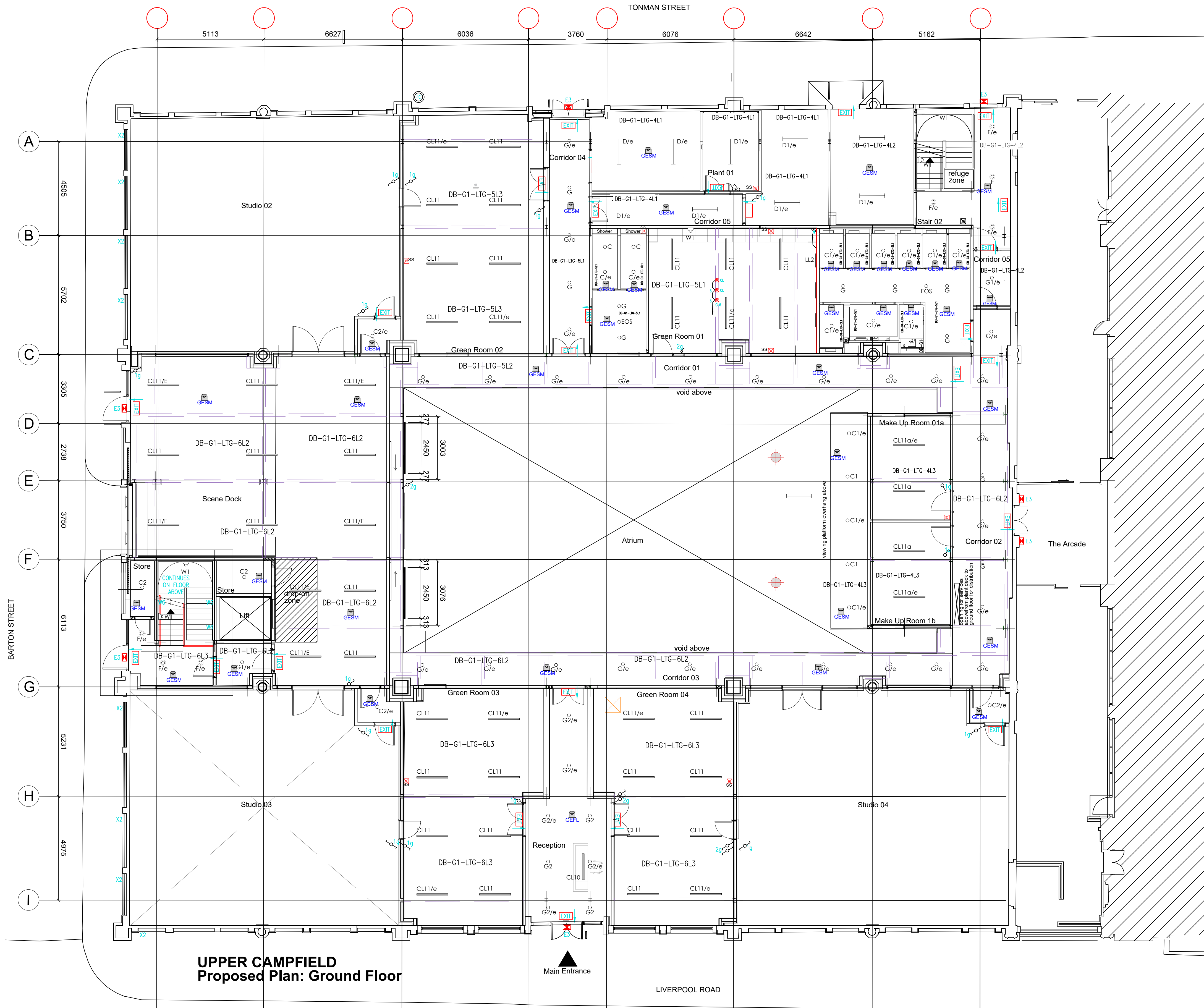
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Rev. C4

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LDL LIGHTING

- A1 MOL/5000/3/WHI/SUSP
- B1 MIL/S/22/OP/4750/3/WHI/SUSP
- B3 MIL/S/33/OP/7580/3/WHI/SUSP
- C CRO/2/1400/3
- C1 CRO/3/2000/3
- C2 CRO/L/2/2600/3
- C11 KEE/5/5000/3/SUSP
- C11a KEE/5/7000/3/SUSP
- D WPZ/4/3580/4
- D1 WPZ/4/4880/4
- EC LED3/COR
- EOS LED3/OA/CIR/WHI
- F DOM/M/60D/1583/3/WHI - DROP ROD/PLATE
- G DOM/M/60D/1289/3/WHI
- G1 DOM/M/60D/1583/3/WHI
- G2 DOM/M/60D/1289/3/BLK
- N SURFACE LED TAPE & EXTRUSION 27K
*DENOTES LENGTH IN METRES
- N1 CORNICE LED TAPE & EXTRUSION 27K
*DENOTES LENGTH IN METRES
- /e DENOTES INTEGRAL EMERGENCY

- E3 IP65 FUSION

GENERAL LEGEND

- L/L ITEM MOUNTED AT LOW LEVEL.
- H/L ITEM MOUNTED AT HIGH LEVEL.
- C/V ITEM MOUNTED IN CEILING VOID.
- R/V ITEM MOUNTED IN ROOF VOID.
- F/V ITEM MOUNTED IN FLOOR VOID.
- W/T ITEM MOUNTED AT WORKTOP LEVEL.
- WP DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
- EX DENOTES EXISTING TO BE RETAINED.
- R DENOTES EXISTING TO BE RELOCATED.
- R.T.A. RISE TO ABOVE.
- R.F.B. RISE FROM BELOW.
- D.F.A. DROP FROM ABOVE.
- D.T.B. DROP TO BELOW.

GENERAL NOTES

1.0 THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS

LIGHTING LEGEND

- /e DENOTES C/W 3 HOUR EMERGENCY BATTERY BACK-UP & LED INDICATOR
- LS LIGHT SWITCH.
*g - DENOTES No. OF GANGS.
- 2WS TWO WAY LIGHT SWITCH.
*g - DENOTES No. OF GANGS.
- ELK EMERGENCY LIGHTING KEY TEST SWITCH. LABELLED FOR EACH SWITCH WITH DESCRIPTION OF CIRCUIT. ELECTRICAL SUB-CONTRACTOR TO PROVIDE REQUIRED NUMBER OF GANGS TO TEST EACH LOCAL CIRCUIT.
- PC PHOTOELECTRIC CELL.
- PT PROGRAMMABLE TIMECLOCK.
- EXIT 3 HOUR SELF CONTAINED, NON-MAINTAINED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.
- EXIT 3 HOUR SELF CONTAINED, NON-MAINTAINED DOUBLE SIDED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client TJM

Project Title UPPER CAMPFIELD

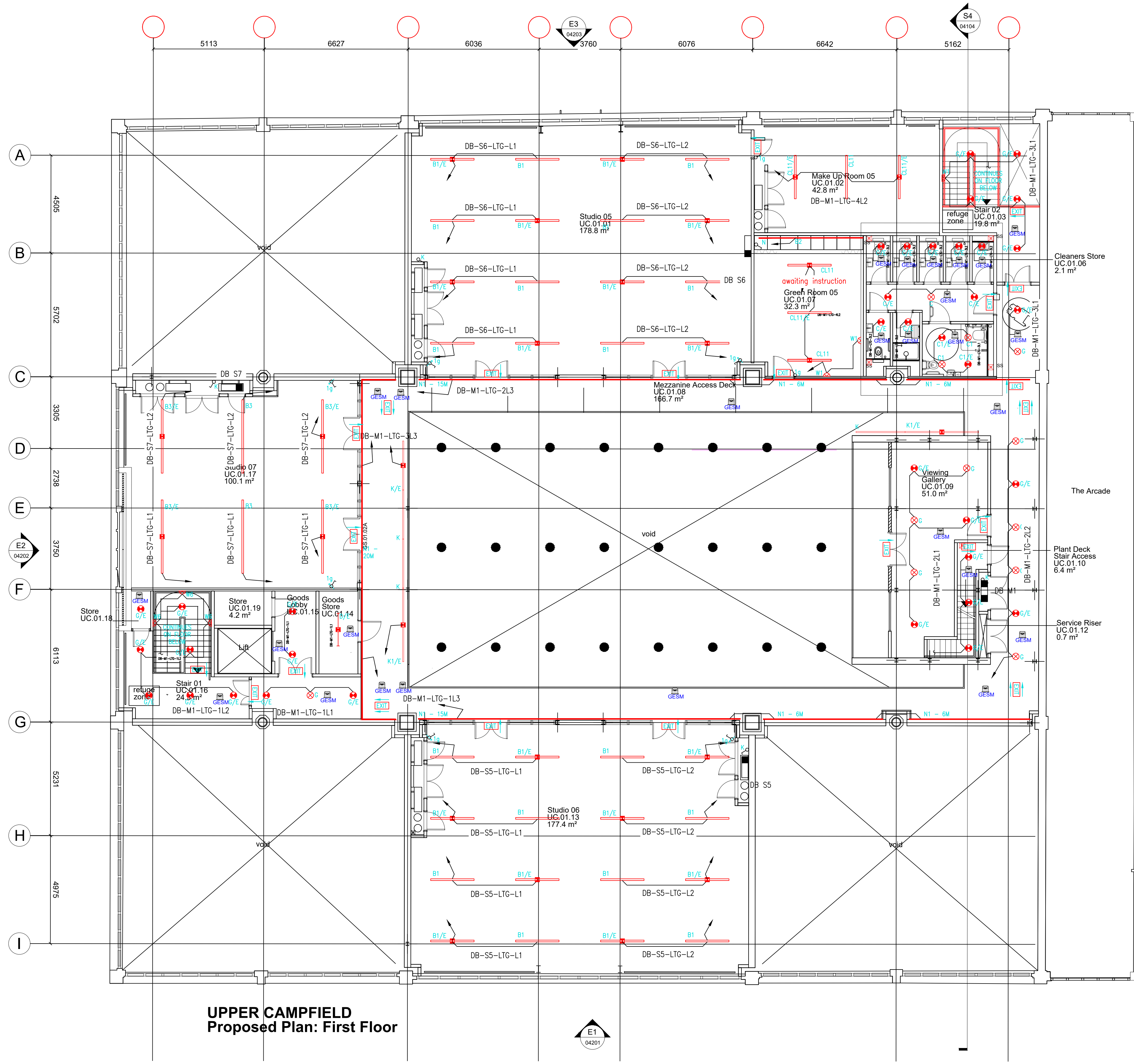
Drawing Title LIGHTING
GROUND FLOOR

In Association with -

Drawn by SB Scales 1:100
Checked by DC (work to figured dimensions)
Date 04.12.24
DRG No. C4488/E006 Rev. C5

NOTICE

THIS DRAWING INCLUDING THE PRINCIPLES OF DESIGN, REMAINS THE PROPERTY OF HAYVERN ELECTRICAL LTD. AND IS ISSUED ON THE UNDERSTANDING THAT IT IS NOT REPRODUCED OR LOANED IN PART OR WHOLE EXCEPT WITH THE OWNERS WRITTEN CONSENT. IT IS NOT TO BE USED IN ANY MANNER THAT MAY BE DETRIMENTAL TO HAYVERN ELECTRICAL LTD. ACCEPTANCE OF THIS DRAWING WILL BE CONSTRUED AS AN AGREEMENT OF THE ABOVE.



GENERAL LEGEND

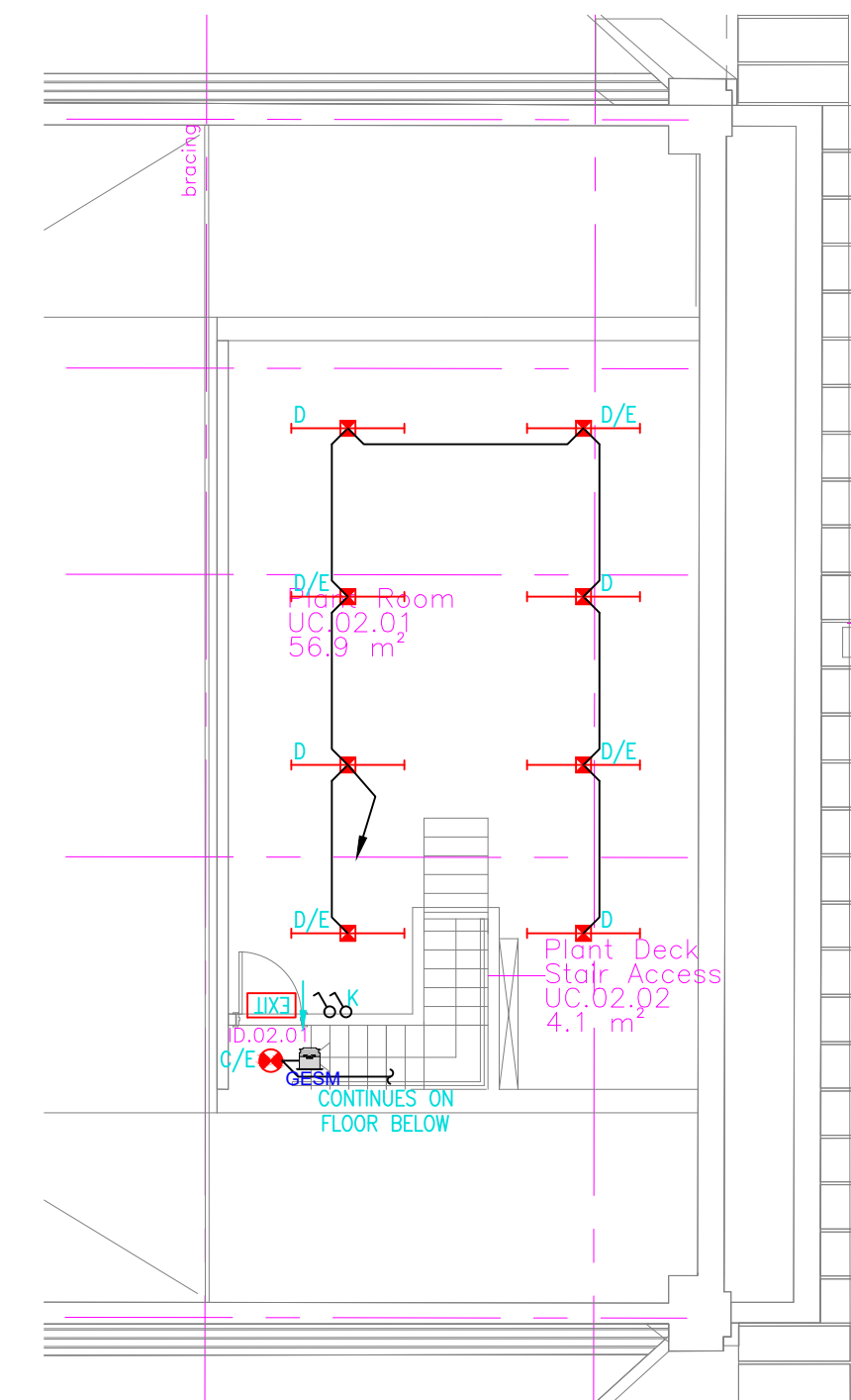
- L/L ITEM MOUNTED AT LOW LEVEL.
- H/L ITEM MOUNTED AT HIGH LEVEL.
- C/V ITEM MOUNTED IN CEILING VOID.
- R/V ITEM MOUNTED IN ROOF VOID.
- F/V ITEM MOUNTED IN FLOOR VOID.
- W/T ITEM MOUNTED AT WORKTOP LEVEL.
- WP DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
- EX DENOTES EXISTING TO BE RETAINED.
- R DENOTES EXISTING TO BE RELOCATED.
- R.T.A. RISE TO ABOVE.
- R.F.B. RISE FROM BELOW.
- D.F.A. DROP FROM ABOVE.
- D.T.B. DROP TO BELOW.

GENERAL NOTES

1.0 THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS

LIGHTING LEGEND

- /E DENOTES C/W 3 HOUR EMERGENCY BATTERY BACK-UP & LED INDICATOR
- *g - DENOTES No. OF GANGS.
- ⬇ LIGHT SWITCH.
- ⬆ TWO WAY LIGHT SWITCH.
- *g - DENOTES No. OF GANGS.
- ⬇⬆ EMERGENCY LIGHTING KEY TEST SWITCH. LABELLED FOR EACH SWITCH WITH DESCRIPTION OF CIRCUIT. ELECTRICAL SUB-CONTRACTOR TO PROVIDE REQUIRED NUMBER OF GANGS TO TEST EACH LOCAL CIRCUIT.
- ☉ PHOTOELECTRIC CELL.
- ⌚ PROGRAMMABLE TIMECLOCK.
- EXIT 3 HOUR SELF CONTAINED, NON-MAINTAINED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.
- EXIT 3 HOUR SELF CONTAINED, NON-MAINTAINED DOUBLE SIDED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.



PLANT ROOM ABOVE MEZZANINE LEVEL

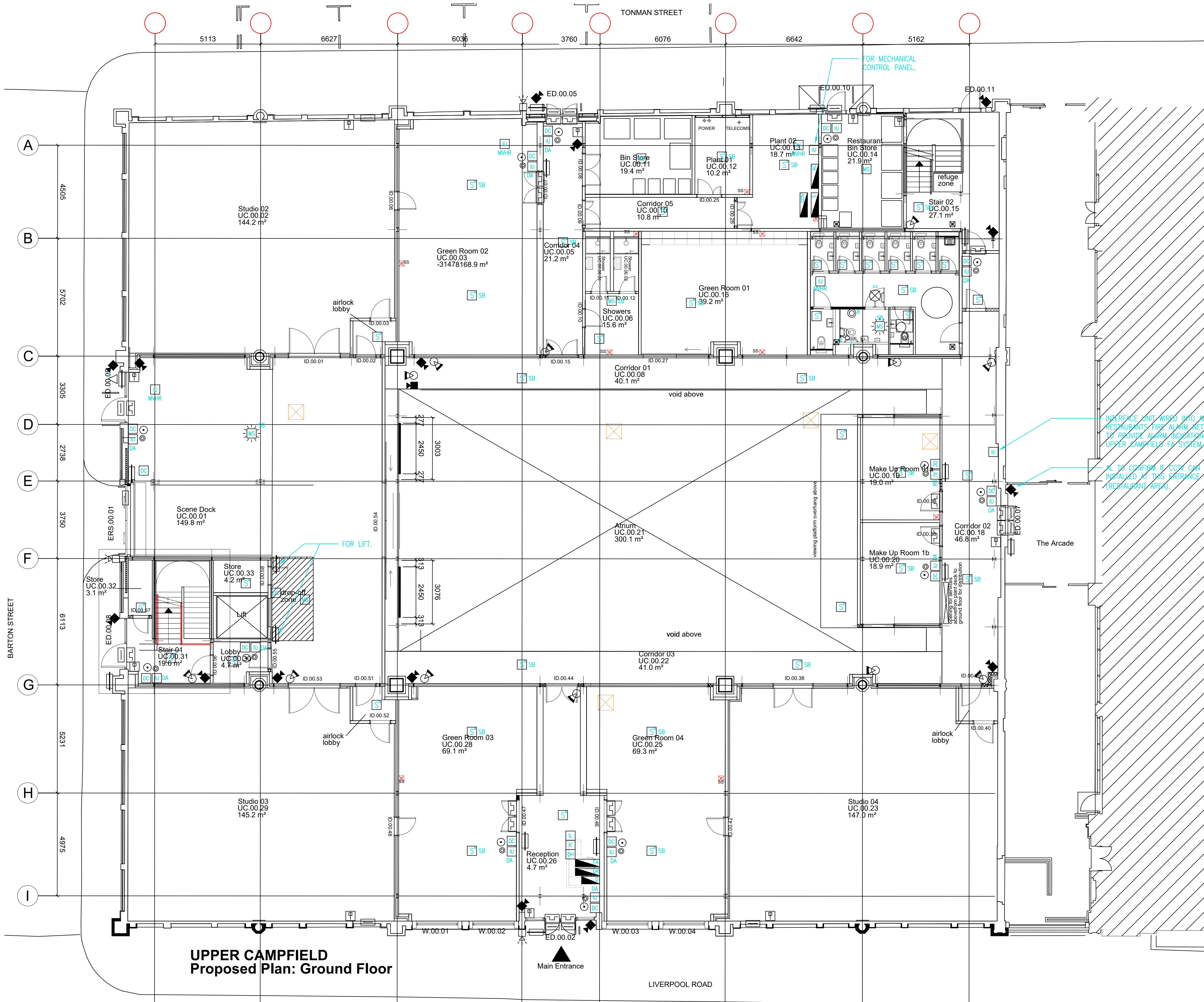
Lighting legend Upper Campfield	
Type	Information
B	LDL Milite EM
BE	LDL Milite EM
B1	LDL Milite
B1E	LDL Milite EM
B1	LDL Milite
B3E	LDL Milite EM
C	LDL Crookes
CE	LDL Crookes EM
C1	LDL Crookes
C1E	LDL Crookes EM
C1D	LDL Bands
C11	LDL Bands
C11E	LDL Bands
D	LDL WPZ IP65 fitting
DE	LDL WPZ IP65 fitting EM
D2E	LDL WPZ IP65 fitting
D1E	LDL WPZ IP65 fitting EM
G	LDL Dominique
GE	LDL Dominique
W1	ESSE 14
W2E	LDL Norma EM
N1	LDL cornice extrusion and LED tape fixed output
EOS	LDL EM SPOT - EMD
GEFL	OP electronics GEFL PIR Sensor

UPPER CAMPFIELD
Proposed Plan: First Floor



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	TJM		
Project Title	UPPER CAMPFIELD		
Drawing Title	LIGHTING MEZZ FLOOR		
In Association with	—		
Drawn by	SB	Scales	1:100
Checked by	DC	(work to figured dimensions)	
Date	04.12.24		
DRG No.	C4488/E007		Rev. C4



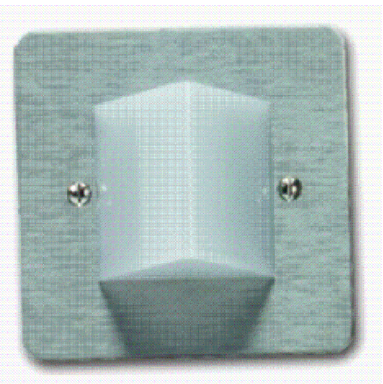
UPPER CAMPFIELD
Proposed Plan: Ground Floor

FIRE ALARMS LEGEND

- MAIN FIRE ALARM PANEL.
- FIRE ALARM REPEATER PANEL.
- MANUAL CALL POINT.
- INTERFACE UNIT.
- 'DC' DENOTES DOOR CLOSER IN CEILING VOID.
- 'DH' DENOTES DOOR HOLD OPEN IN CEILING VOID.
- 'DA' DENOTES FOR DOOR ACCESS.
- 'EF' - DENOTES EXTRACT FAN.
- 'HRU' - HEAT RECOVERY UNIT.
- OPTICAL SMOKE DETECTOR.
- OPTICAL SMOKE DETECTOR C/W SOUNDER BASE.
- OPTICAL SMOKE DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- HEAT DETECTOR.
- HEAT DETECTOR C/W SOUNDER BASE.
- HEAT DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- MULTI-SENSOR DETECTOR.
- MULTI-SENSOR DETECTOR C/W SOUNDER BASE.
- MULTI-SENSOR DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- OPTICAL SMOKE DETECTOR MOUNTED IN CEILING VOID WITH REMOTE INDICATOR MOUNTED DIRECTLY BELOW.
- REMOTE INDICATOR UNIT.
- BEAM DETECTOR TRANSMITTER AT H/L.
- BEAM DETECTOR RECEIVER AT H/L.
- ELECTRONIC SOUNDER.
- ELECTRONIC SOUNDER & FLASHING BEACON.
- DOOR DETENTE/HOLD OPEN WITH INTEGRAL RESET BUTTON.

INTRUDER ALARM LEGEND

- INTRUDER ALARM PANEL.
- DOOR/WINDOW CONTACT.
- KEYPAD.
- DUALTECH DETECTOR.
- SOUNDER & FLASHING BEACON.



DISABLED WC WALL MOUNTED
REPEAT ALARM LAMP UNIT
FINISH TO BE CONFIRMED BY INTERIOR DESIGNER

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GENERAL NOTES

- THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS
- ALL VISIBLE SERVICES IN THE BUILDING TO BE AGREED WITH HART
- ALL VISIBLE SERVICES WITHIN STUDIO 01 WILL HAVE A BLACK FINISH.

SERVICES SPECIFIC NOTES

- GENERAL LEGEND
- L/L ITEM MOUNTED AT LOW LEVEL.
 - H/L ITEM MOUNTED AT HIGH LEVEL.
 - C/V ITEM MOUNTED IN CEILING VOID.
 - R/V ITEM MOUNTED IN ROOF VOID.
 - F/V ITEM MOUNTED IN FLOOR VOID.
 - W/T ITEM MOUNTED AT WORKTOP LEVEL.
 - WP DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
 - EX DENOTES EXISTING TO BE RETAINED.
 - R DENOTES EXISTING TO BE RELOCATED.
 - R.T.A RISE TO ABOVE.
 - R.F.B RISE FROM BELOW.
 - D.F.A DROP FROM ABOVE.
 - D.T.B DROP TO BELOW.

ACCESS CONTROL LEGEND

- ACCESS CONTROL PANEL/HEAD END P.C.
- ELECTRONIC KEYPAD/PROXIMITY READER/SWIPE CARD READER FOR DOOR RELEASE.
- 'S' DENOTES BATTERY OPERATED WIRELESS SMART DOOR LOCK.
- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- DOOR CONTROLLER.
- INTERCOM.
- DOOR INTERCOM HANDSET.
- REMOTE DOOR RELEASE BUTTON.
- SALTO WIRELESS ROUTER.
- MAGLOCK.

CCTV LEGEND

- CCTV SYSTEM CONTROL EQUIPMENT & MONITOR.
- FIXED CCTV CAMERA.

DISABLED WC ALARM LEGEND

- DISABLED WC ALARM INDICATOR PANEL.
- DISABLED WC EMERGENCY PULL CORD.
- DISABLED WC RESET BUTTON.
- DISABLED WC WALL MOUNTED REPEAT ALARM LAMP UNIT.

DISABLED REFUGE LEGEND

- DISABLED REFUGE ALARM PANEL.
- DISABLED REFUGE ALARM CALL POINT.

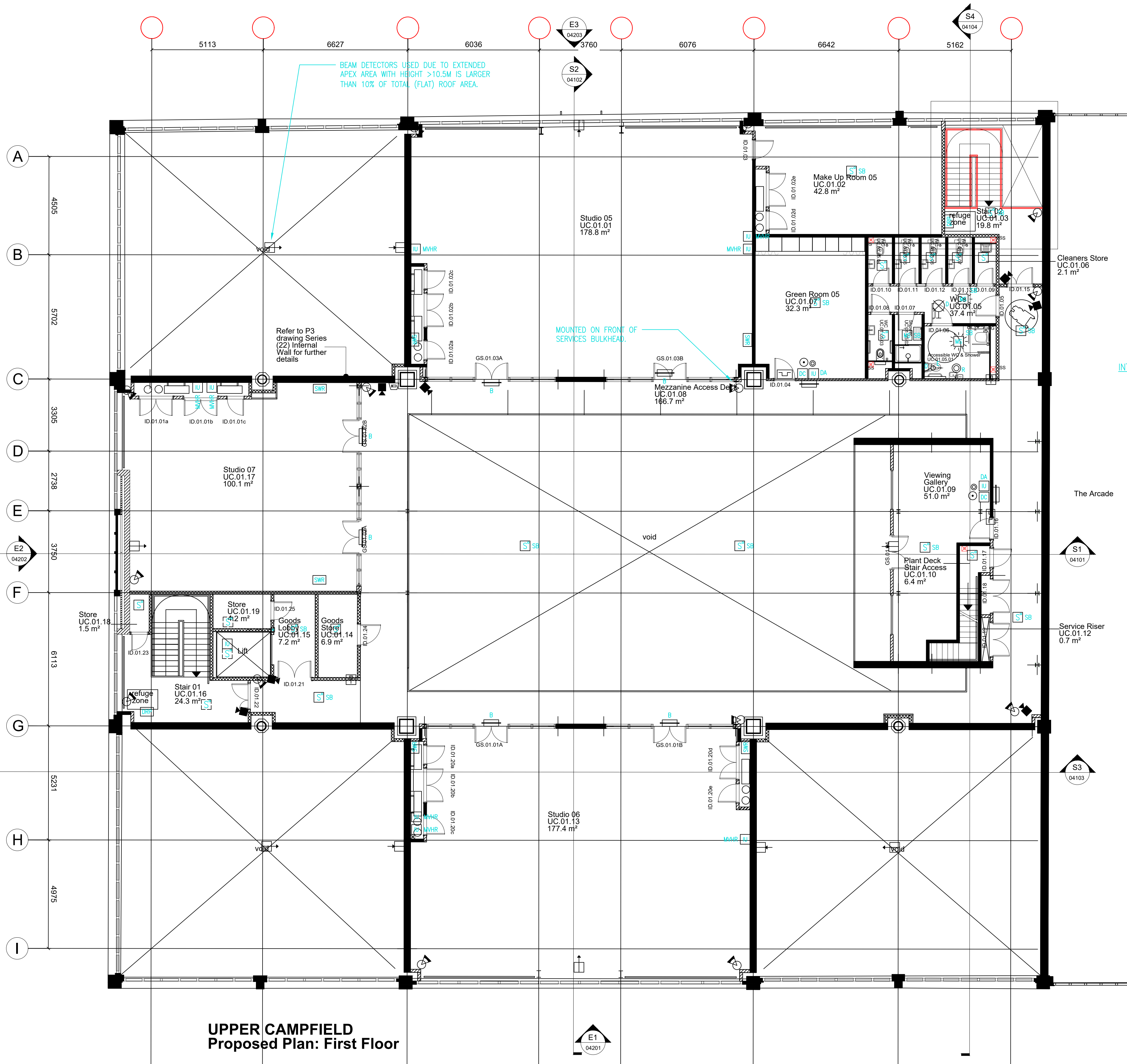
MISCELLANEOUS DISABLED SYSTEMS LEGEND

- INDUCTION LOOP.



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	TJM		
Project Title	UPPER CAMPFIELD		
Drawing Title	FIRE AND SECURITY GROUND FLOOR		
In Association with	-		
Drawn by	SB	Scales	1:100
Checked by	DC	(work to figured dimensions)	
Date	12.11.24		
DRG No.	C4488/E008	Rev. C3	



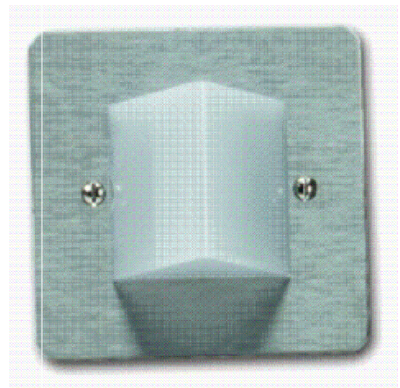
UPPER CAMPFIELD
Proposed Plan: First Floor

FIRE ALARMS LEGEND

- MAIN FIRE ALARM PANEL.
- FIRE ALARM REPEATER PANEL.
- MANUAL CALL POINT.
- INTERFACE UNIT.
- 'DC' DENOTES DOOR CLOSER IN 'CEILING VOID.'
- 'DH' DENOTES DOOR HOLD OPEN IN 'CEILING VOID.'
- 'DA' DENOTES FOR DOOR ACCESS.
- 'EF' - DENOTES EXTRACT FAN.
- 'HRU' - HEAT RECOVERY UNIT.
- OPTICAL SMOKE DETECTOR.
- OPTICAL SMOKE DETECTOR C/W SOUNDER BASE.
- OPTICAL SMOKE DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- HEAT DETECTOR.
- HEAT DETECTOR C/W SOUNDER BASE.
- HEAT DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- MULTI-SENSOR DETECTOR.
- MULTI-SENSOR DETECTOR C/W SOUNDER BASE.
- MULTI-SENSOR DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- OPTICAL SMOKE DETECTOR MOUNTED IN CEILING VOID WITH REMOTE INDICATOR MOUNTED DIRECTLY BELOW.
- REMOTE INDICATOR UNIT.
- BEAM DETECTOR TRANSMITTER AT H/L.
- BEAM DETECTOR RECEIVER AT H/L.
- ELECTRONIC SOUNDER.
- ELECTRONIC SOUNDER & FLASHING BEACON.
- DOOR DETENTE/HOLD OPEN WITH INTEGRAL RESET BUTTON.

INTRUDER ALARM LEGEND

- INTRUDER ALARM PANEL.
- DOOR/WINDOW CONTACT.
- KEYPAD.
- DUALTECH DETECTOR.
- SOUNDER & FLASHING BEACON.



DISABLED WC WALL MOUNTED
REPEAT ALARM LAMP UNIT
FINISH TO BE CONFIRMED BY INTERIOR DESIGNER

GENERAL NOTES

- THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS.
- ALL VISIBLE SERVICES IN THE BUILDING TO BE AGREED WITH HART.
- ALL VISIBLE SERVICES WITHIN STUDIO 01 WILL HAVE A BLACK FINISH.

SERVICES SPECIFIC NOTES

- ITEM MOUNTED AT LOW LEVEL.
- ITEM MOUNTED AT HIGH LEVEL.
- ITEM MOUNTED IN CEILING VOID.
- ITEM MOUNTED IN ROOF VOID.
- ITEM MOUNTED IN FLOOR VOID.
- ITEM MOUNTED AT WORKTOP LEVEL.
- DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
- DENOTES EXISTING TO BE RETAINED.
- DENOTES EXISTING TO BE RELOCATED.
- RISE TO ABOVE.
- RISE FROM BELOW.
- DROP FROM ABOVE.
- DROP TO BELOW.

ACCESS CONTROL LEGEND

- ACCESS CONTROL PANEL/HEAD END P.C.
- ELECTRONIC KEYPAD/PROXIMITY READER/SWIPE CARD READER FOR DOOR RELEASE.
- 'B' DENOTES BATTERY OPERATED WIRELESS SMART DOOR LOCK.
- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- DOOR CONTROLLER.
- INTERCOM.
- DOOR INTERCOM HANDSET.
- REMOTE DOOR RELEASE BUTTON.
- SALTO WIRELESS ROUTER.
- MAGLOCK.

CCTV LEGEND

- CCTV SYSTEM CONTROL EQUIPMENT & MONITOR.
- FIXED CCTV CAMERA.

DISABLED WC ALARM LEGEND

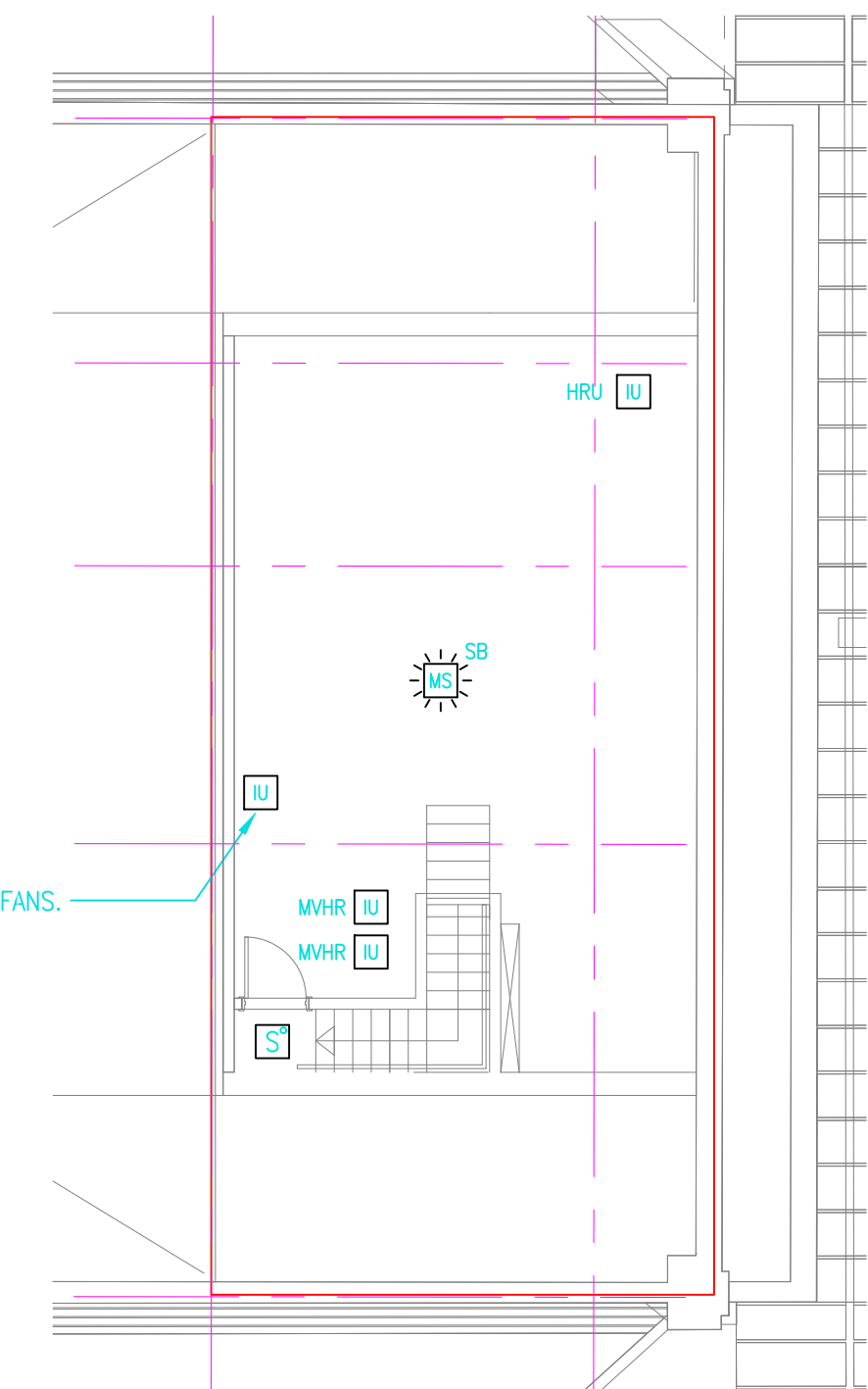
- DISABLED WC ALARM INDICATOR PANEL.
- DISABLED WC EMERGENCY PULL CORD.
- DISABLED WC RESET BUTTON.
- DISABLED WC WALL MOUNTED REPEAT ALARM LAMP UNIT.

DISABLED REFUGE LEGEND

- DISABLED REFUGE ALARM PANEL.
- DISABLED REFUGE ALARM CALL POINT.

MISCELLANEOUS DISABLED SYSTEMS LEGEND

- INDUCTION LOOP.



PIANT ROOM ABOVE MEZZANINE LEVEL



56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	TJM		
Project Title	UPPER CAMPFIELD		
Drawing Title	FIRE AND SECURITY MEZZ FLOOR		
In Association with	-		
Drawn by	SB	Scales	1:100
Checked by	DC	(work to figured dimensions)	
Date	12.11.24		
DRG No.	C4488/E009		Rev. C3

03 Hart lighting schedule, UC_sL

HART				23-058: LIGHTING SCHEDULE					
				UC_sL		Project	Upper Campfield		
						Date	15 January 2025		
				Client Address			Project Address		
All Work & Social Bonded Warehouse 18 Lower Byrom Street Manchester M3 4AP			Upper Campfield Liverpool Road Manchester M3 4FP						
Revision:	T1	Stage 3+ Tender	15/12/2023						
	T2	Stage 3+ Redesign Tender	30/04/2024						
	C1	Stage 3+ Construction	13/08/2024						
		Stage 3+ information to be developed by the contractor/subcontractors for construction. Subject to any VE or contract admissions / omissions undertaken by the client							
	C2	Stage 3+ Construction	15/01/2025						
		Stage 3+ information to be developed by the contractor/subcontractors for construction. Subject to any VE or contract admissions / omissions undertaken by the client							
Please Note: - Revisions made since the last issue are marked in blue - Omissions made since the last issue are struck through in grey - Target lux levels are provided within this schedule. The client does <u>not</u> require 100% uniformity to be achieved. A reasonable uniformity is sufficient, whilst keeping the quantity of fittings to a reasonable level. - This schedule is for design intent purposes only, final specifications of light fittings will be by the MEP Engineer and lighting controls must be agreed with the client - Any 'acceptable equivalents' proposed by the Architect or Contractor need to be approved by the client prior to manufacture or any orders being placed - Contractor to provide co-ordinated RCP for review and comment by client/architect prior to ordering fittings and prior to installation of containment - Quantity of fittings shown on architectural reflected ceiling plans (CL series) are indicative at this stage									
HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes	
LIGHTING									
CL1	H & H/E	Various Corridors / Lobbies		Surface-mounted downlight 'can' fitting	White	Force Size tbc by MEP Design	Mount Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings	
CL2	G & G/E	Viewing Gallery / Stairs		Surface-mounted downlight 'can' fitting	White	Force Size tbc by MEP Design	Mount Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings	

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
CL3	Omitted							
CL4	J1 & J1/E	WC Lobbies / Shower Lobby		Surface-mounted downlight 'can' fitting IP rating tbc by MEP Engineer	White	Force Size tbc by MEP Design MEP to confirm if this fitting has the required IP rating	Mount Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL5	B1 & B1/E B2 & B2/E	Mezz Studios	 Design intent image	Suspended linear light	White	Tbc by MEP Design	Tbc by MEP Design	Light temp: 3000k Target Lux Level: 300-350 Lux to Prod. Office & Workspaces 200 Lux to Loading Bay Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL6	CL6	Green Room 01		Suspended pendant light Quantity of 3, centred above teapoint island Installed at 2000mm AFFL	Mustard 325mm diameter	Unfold Pendant	Muuto	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL7	F & F/E	Circulation / Corridors		Suspended downlight 'can' fitting	White	Force Extended suspension drop may be required due to high soffit height Size tbc by MEP Design	Mount Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
CL8	K & K/E K1 & K1/E	Mezzanine Deck (around exterior of Studio 01)		Surface-mounted linear light with wall wash diffuser Installed on arm brackets Design intent of fitting mounted on arm brackets, to give sufficient clearance to provide an even wall wash down the double height partition Top image is not representative of proposed colour	Custom RAL Colour tbc	Estrella Pro Linear with Wallwash Diffuser	Ricoman	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL9	D & D/E	BOH Areas	Tbc by MEP Design					
CL10		Reception		Suspended linear light, centred above reception desk Installed at 2000mm AFFL	Metal	Grid	Zero Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
CL11		Scene Dock / Green Rooms / Atrium Ancillary Rooms / Make-Up Room 05		Suspended tubular LED fitting Length: 1500mm	Aluminium/SS end caps	Keela	LDL Lighting	Light temp: 3000k Target Lux Levels: - 300-350 Lux to Make-Up Rooms & Atrium Ancillary - 200 Lux to Scene Dock & Green Rooms Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL12		Reception		Surface-mounted downlight 'can' fitting	Black	Force Size tbc by MEP Design	Mount Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
D1	C & C/E	WC Cubicles / Cleaners Cupboards		Recessed downlight IP rating tbc by MEP Engineer	White	Crookes	LDL Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: No Or acceptable equivalent, client to approve To contain integrated emergency fittings
D2	C & C/E	Shower		Recessed downlight IP rating tbc by MEP Engineer	White	Crookes	LDL Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: No Or acceptable equivalent, client to approve To contain integrated emergency fittings
D3	Omitted							
D4	Omitted							
D5	L & L/E	Various		Recessed downlight	White	Crookes	LDL Lighting	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: No Or acceptable equivalent, client to approve To contain integrated emergency fittings
D6	Omitted							
LL2	N	Teapoints	To MEP Engineer's proposals					Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
LL3	Omitted							
LL4	N1	Mezzanine Deck (services bulkhead)	 Indicative image of angled profile, colour is not representative of proposed finish	Angled linear strip	White profile, opal diffuser	Loox5 LED Flexible Strip	Hafele	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
TL1								Omitted
P1								Omitted
P2								Omitted
P3								Omitted
P4								Omitted
P5								Omitted
P6	A1	Corner Studios 02-04 / Atrium		High-bay suspended pendant	White cap	Molly	LDL Lighting	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
P7	A	Studio 01		High-bay suspended pendant	Black	Hangar MEP-Design to confirm if proposed fitting achieves client requirements	Ideal-Lux	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
W1	W1	Stairs / Green Rooms 01 & 05		Wall-mounted vertical tube light With opal/porcelain effect bulb	Black	Esse 14 - 300mm	Creative Cables	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
W6		Make-Up Rooms		Galvanised conduit with surface mounted lightbulbs around mirrors	Galvanised	Tbc by MEP Design	Tbc by MEP Design	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve Refer to design drawings for details

04 TJM AC kit hanging proposals



UPPER CAMPFIELD - AC KIT HANGING

Upper Campfield

Tuesday 26 November 2024

Prepared For Allied London

12 Items Identified



1

Option 1- unistrut between timbers with rods hanging off

Option 2 - gripper around existing steel and spider rods down



2

Method of hanging TBC by sub contractor



3

Gripper rods down from centre of existing steel section



4+5

Gripper rods hanging off the existing beam down to kit.



6

Option 1- unistrut between timbers with rods hanging off

Option 2 - gripper around existing steel and spider rods down



7

Method of hanging TBC by sub contractor



8

Gripper rods down from centre of existing steel section



9+10

Gripper rods hanging off the existing beam down to kit.



14+15

Gripple rods hanging off the existing beam down to kit.



11

Gripple rods down from centre of existing steel section



12

Method of hanging TBC by sub contractor



13

Option 1- unistrut between timbers with rods hanging off
Option 2 - gripple around existing steel and spider rods down

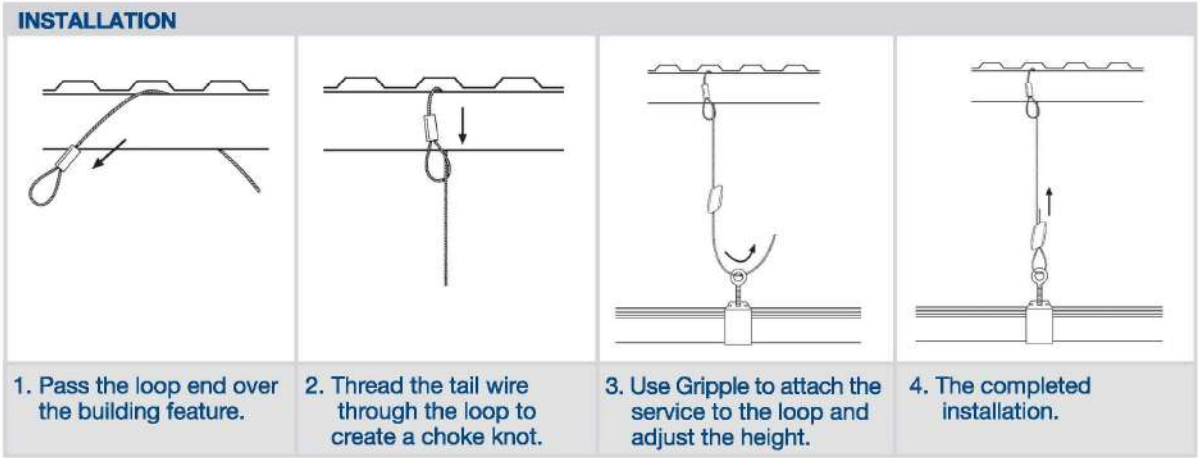
05 Gripple wire hanging

Gripple Loop End Fixing



End fixing that is ideal for looping around purlins, beams, roof trusses and other accessible building features.

- ADVANTAGES**
- Quick, simple choke-knot installation.
 - No need for nuts, bolts, clamps or other accessories.
 - Up to 6 times faster installation compared with threaded rod or chain.
 - Available in No.1 - No.5
 - Supplied in a ready-to-use kit with a length of wire and a Gripple.
 - Also available in a Stainless Steel version.



LOOP SPECIFICATION

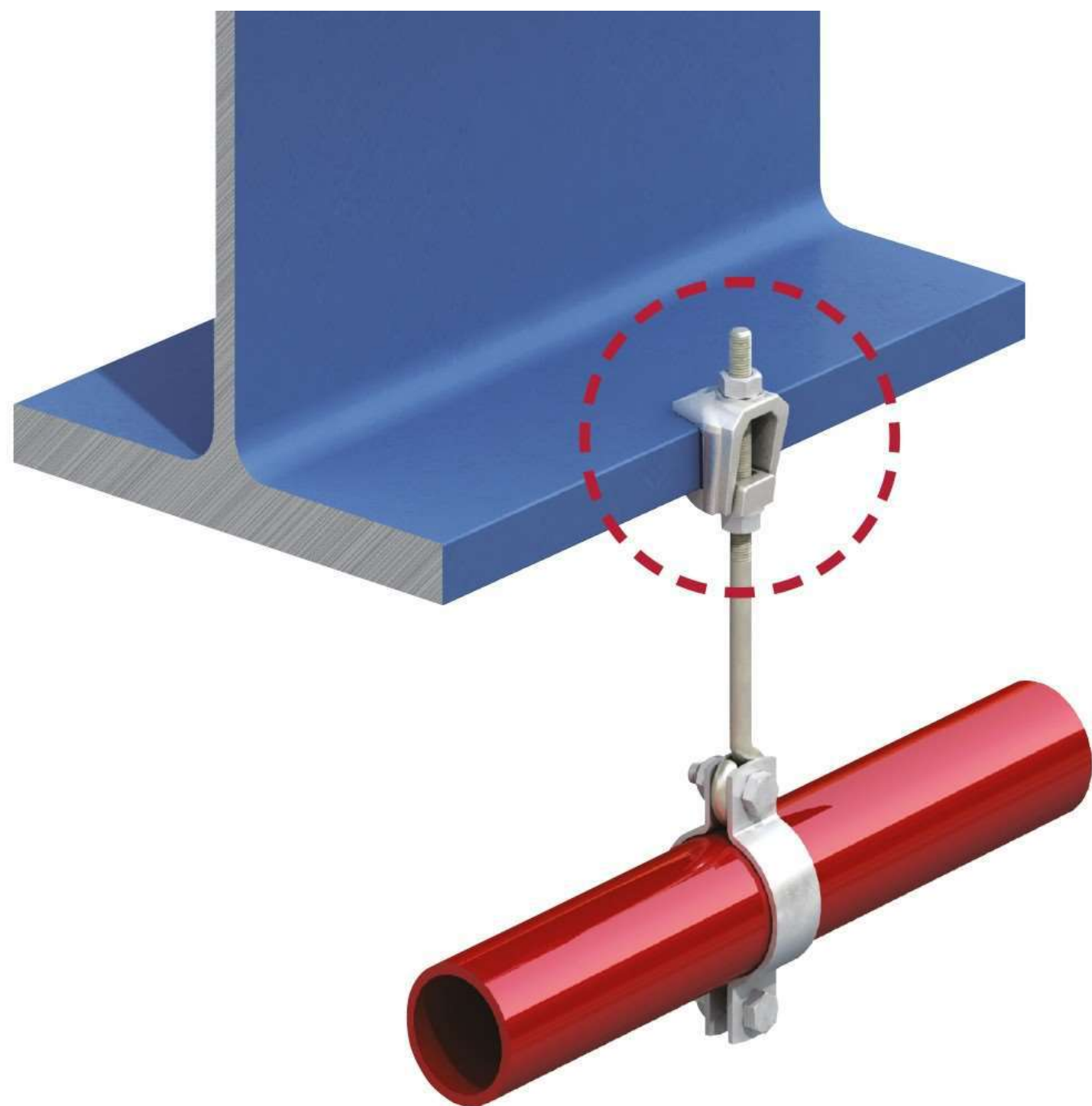
	A (Nominal) mm	B (Nominal) mm	C mm	D mm
No.1	30	60	11	6
No.2	30	60	13	8
No.3	25	60	15	12
No.4	45	85	24	16
No.5	45	90	28	20

Important Information

1. Construction materials and conditions vary on different sites. If it suspected that the base material has insufficient strength to achieve a suitable fixing, contact Gripple Ltd. The responsibility for judgement of base material strength lies with the installer, and not with Gripple Ltd.
2. The information and recommendations given herein are believed to be correct at time of writing. The data has been obtained from tests done under laboratory, or other controlled conditions and it is the users responsibility to use the data given in light of conditions on site, taking account of the intended use of the products concerned.
3. Whilst Gripple Ltd can give general guidance and advice, the nature of Gripple products means that the ultimate responsibility for selecting the correct product for a particular application must lie with the customer.
4. All products must be used, handled and applied in accordance with current product instructions and manufacturers recommendations for use, published by Gripple Ltd.
5. Gripple's policy is one of continuous development and innovation. We, therefore reserve the right to alter specifications, etc. without notice.

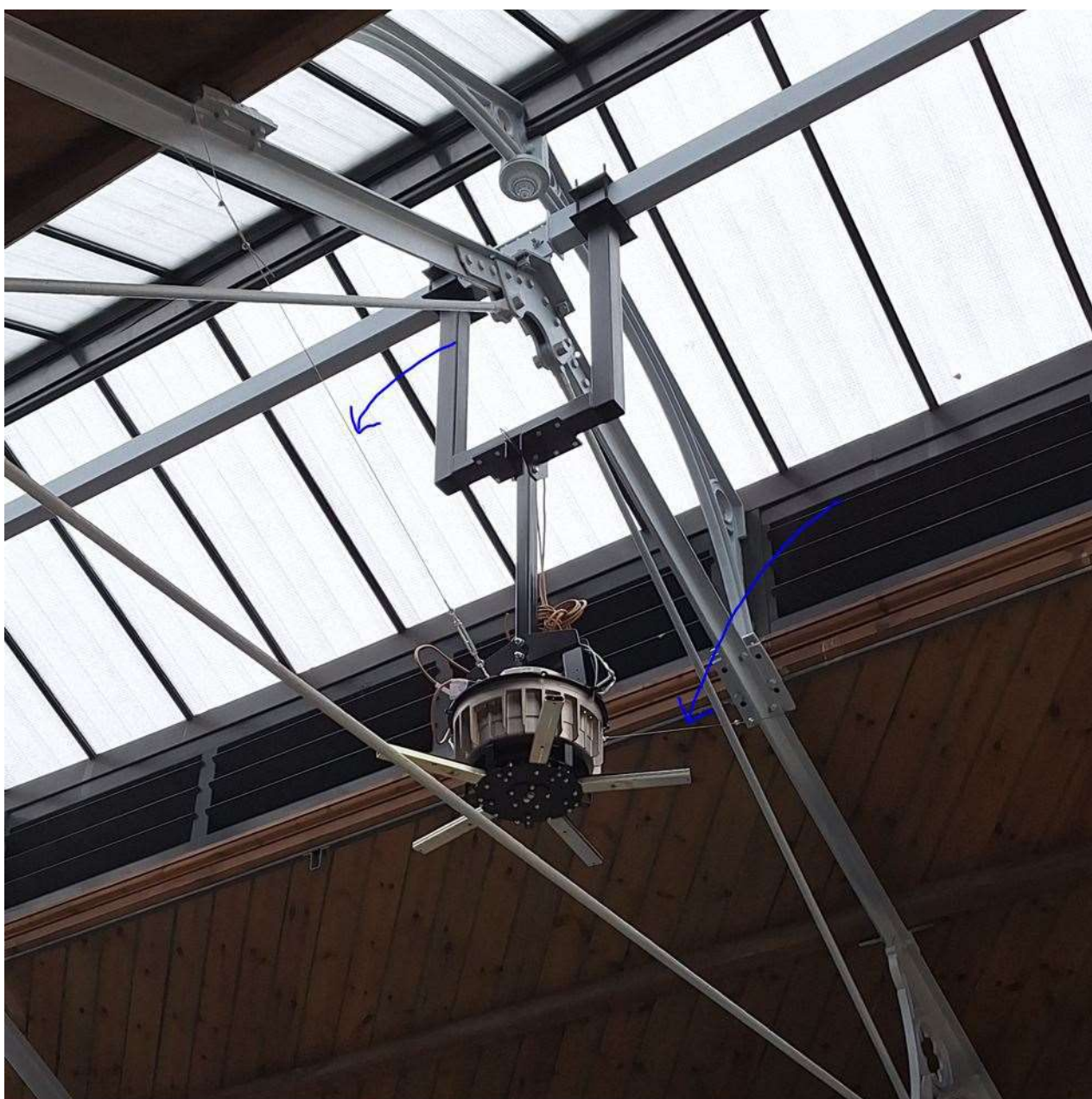


06 Lindapter flange clamps to existing beams

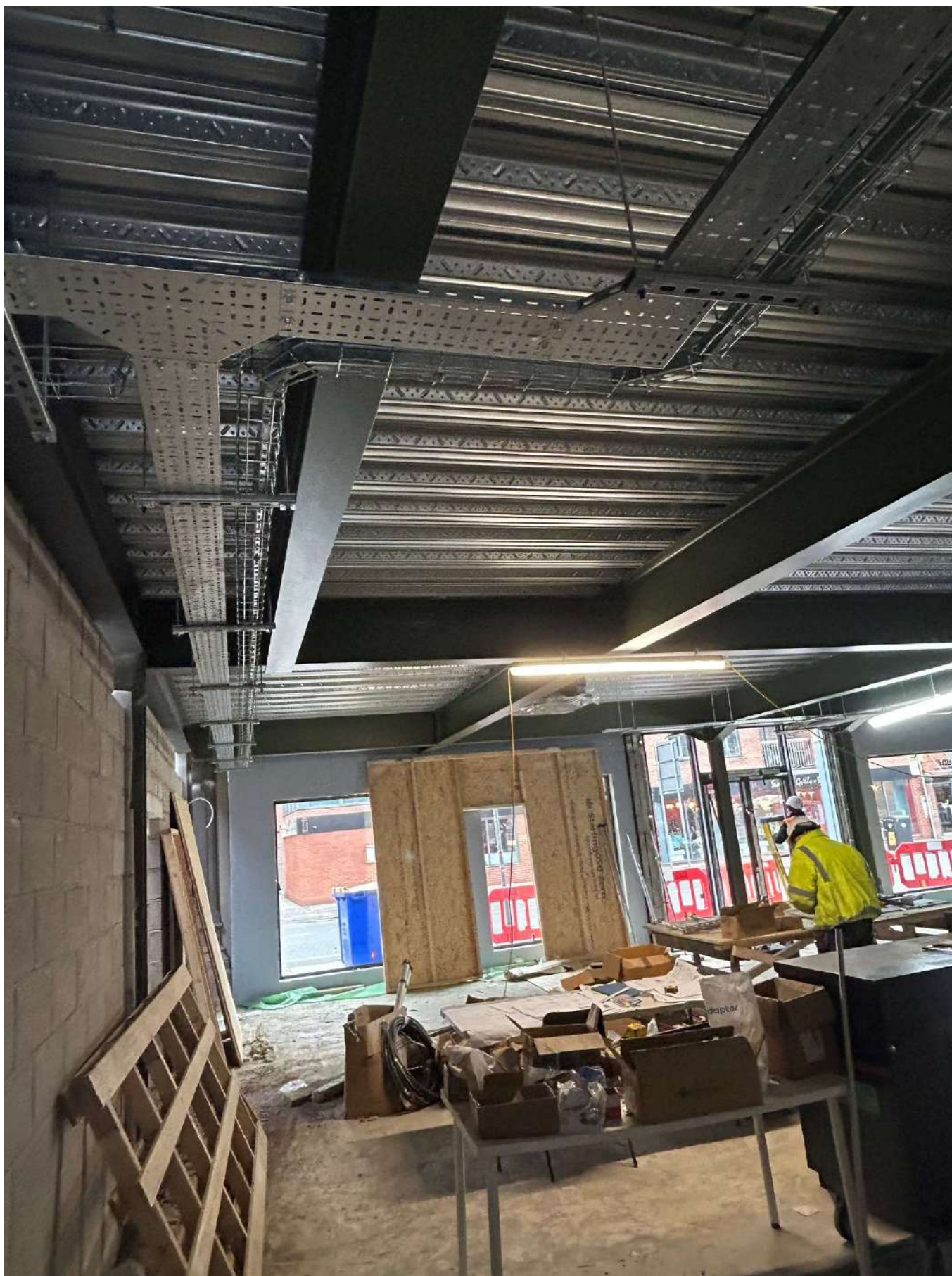


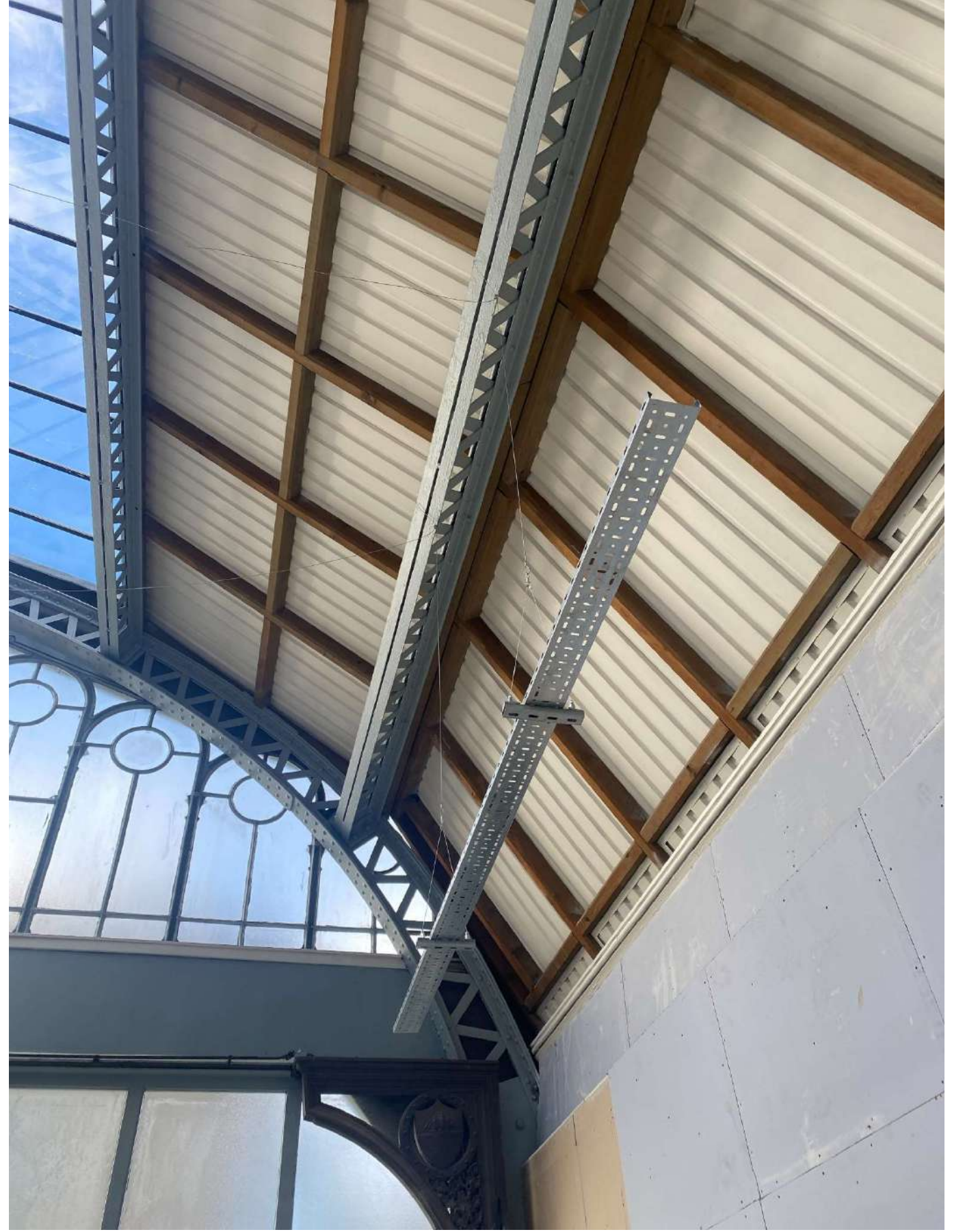
07 Destratification fan clamp fitting

The high level destratification fans will be fixed using a flat plate which will be mechanically clamped to the existing box section steel for rigidity with no fixing actually into the existing steel structure



08 Photos of mock-up installations





09 Exterior light and CCTV fitting

The images of the external fittings are not representative of the actual colour of the fitting. The external CCTV cameras, external wall lights, alarm bell boxes and LED shroud are all to be black.

LDL Lighting – LED linear lights proposal

Colour Zone Multizone LED colour controller

Images of installed LED lighting mock-up

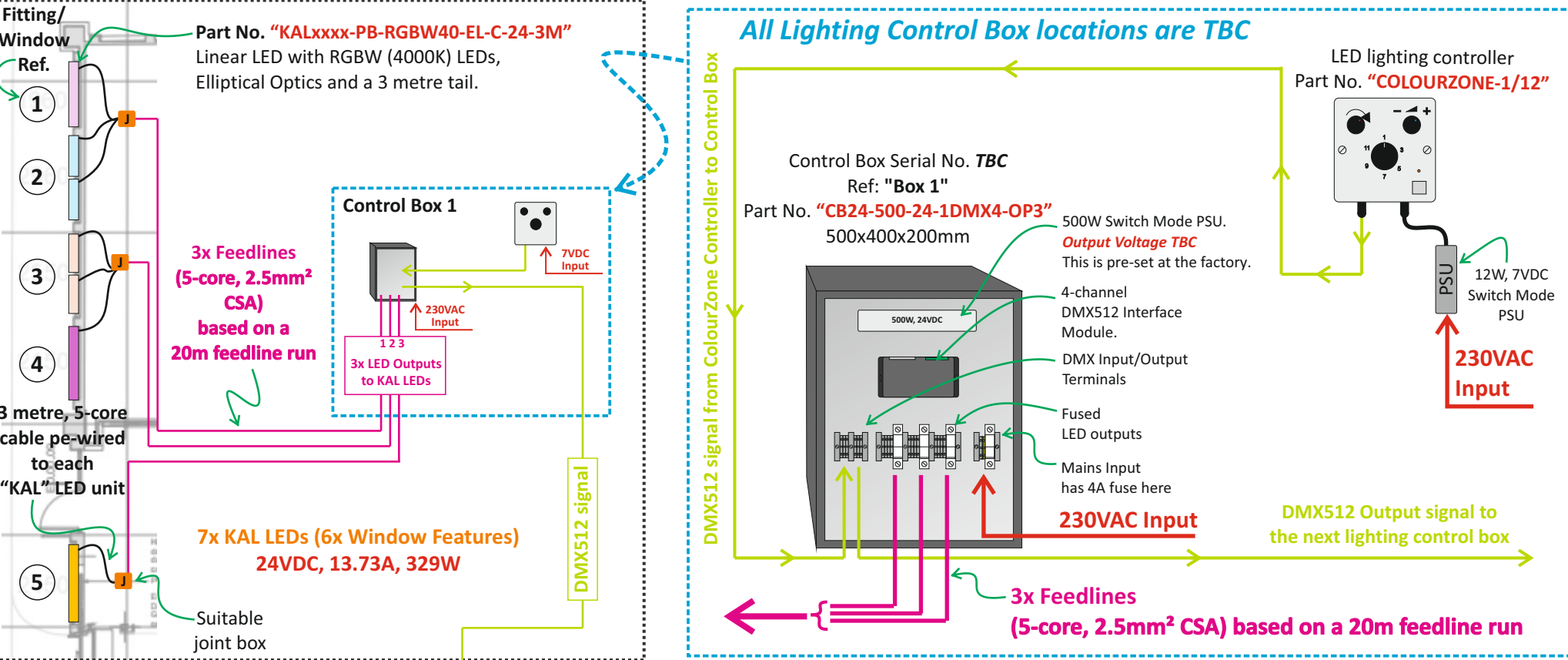
Lighting Motions, Fusion Wall light – to be installed above each exit door

CCTV fixing locations

Upper Campfield - RGBW "KAL" LED Linear Lights, 1 Zone of Control - Provisional Wiring Overview

This drawing shows the typical wiring for 1 ZONE of control. There are 28x "KAL" LEDs on the project to illuminate 26x window features (windows 2 & 3 have 2x LEDs each). Each "KAL" length is fitted with RGBW (4000K) LEDs and Elliptical (45°x16°) Optics. The lights are powered by 4x Control Boxes located near the window features. The control boxes are fitted with 500W, 24VDC PSUs, 1-Zone (4-channel) DMX512 interface modules and SELV fused output terminals. The lighting is controlled by a DMX512 ColourZone Controller with 12 customisable lighting scenes.

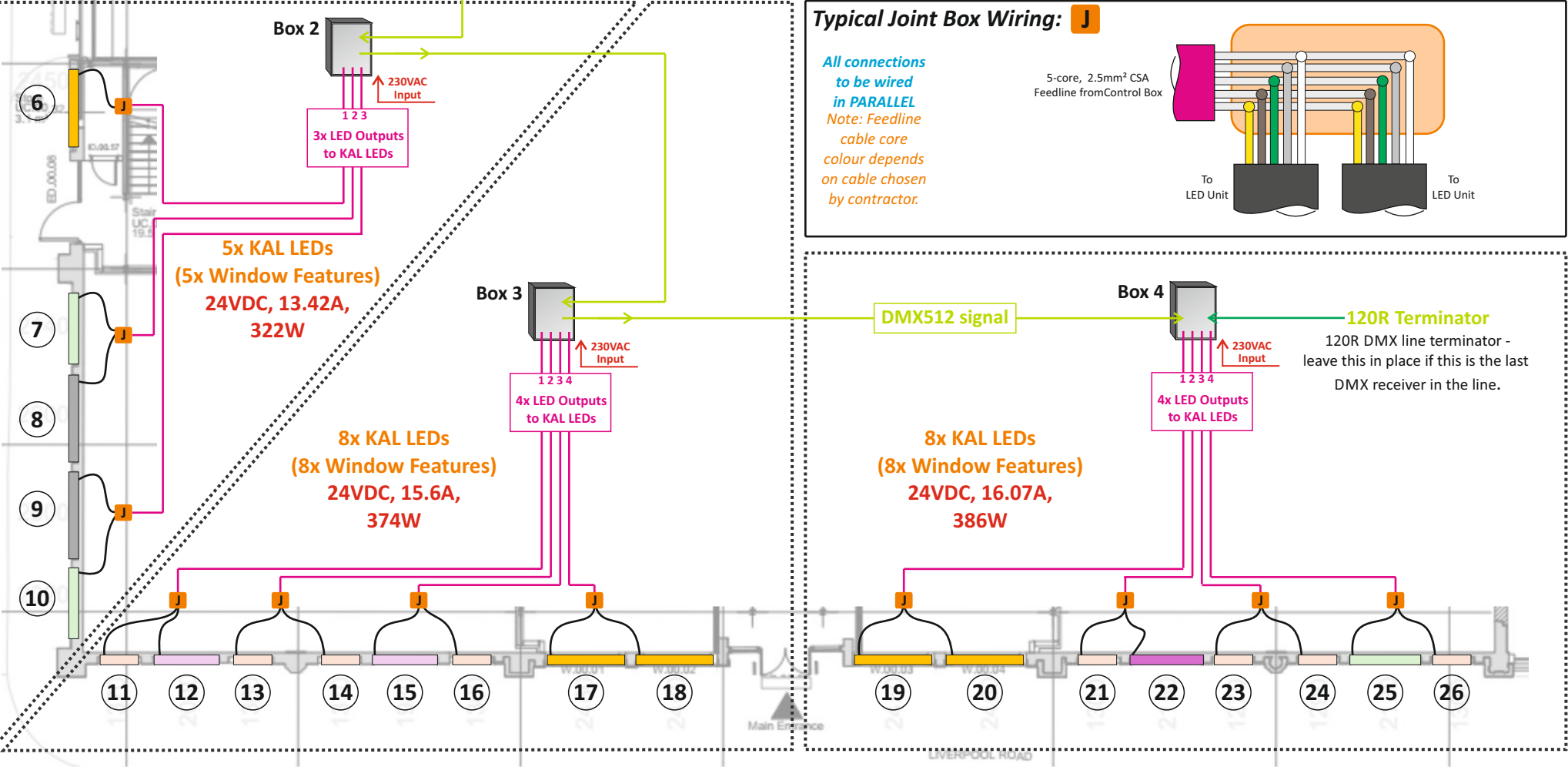
Drawing No./Status:
27535 Rev.A
Provisional
09/01/2025



This drawing shows the system configured as 1 Zone of control.

Equipment Summary:

Product Image	Qty	Part No:	Electrical Details		
			Operating Voltage	Max. Current Per Unit	Max. Wattage Per Unit
	10	KAL1165-PB-RGBW40-EL-C-24-3M	24VDC typ.	1.4A	34W
	2	KAL1415-PB-RGBW40-EL-C-24-3M	24VDC typ.	1.72A	41W
	3	KAL1790-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.18A	53W
	3	KAL1915-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.34A	56W
	2	KAL2040-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.5A	60W
	6	KAL2290-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.8A	68W
	2	KAL2415-PB-RGBW40-EL-C-24-3M	24VDC typ.	2.96A	71W
	1	COLOURZONE-1/12	7VDC.	-	-
	2	CB24-500-24-1DMX4-OP3 (Boxes 1 & 2)	230VAC	4A	500W
	2	CB24-500-24-1DMX4-OP4 (Boxes 3 & 4)	230VAC	4A	500W



Cable Key:

Image	Function	Type	Supplied By
	DMX512 Data Cable	2-core screened	Installation Contractor
	Feedline	5-core feedline, size 2.5mm ² CSA	Installation Contractor
	230VAC Input Cable	L, E, N	Installation Contractor
	Junction Box	Feedline Junction Box	Installation Contractor
	Luminaire Cable	3 metre cable, 5-cores, 0.34mm ² CSA, 4.9mm O.D. njo Ref. W509	Pre-wired to LED

All connections to be wired in PARALLEL

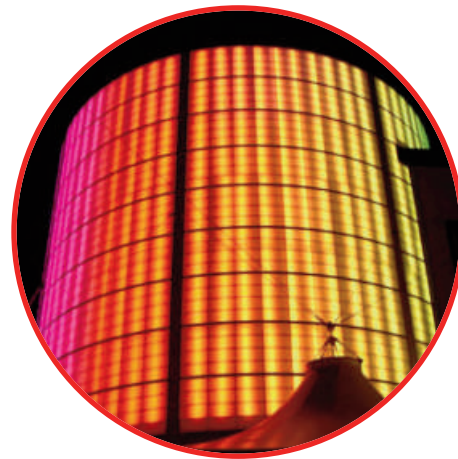
These LED lights operate from a Low Voltage source and must not be Connected to a Mains Voltage supply. WARNING! Reverse Polarity damages LEDs

Drawing No. 27535					
Batch No:		TBC			
Drawn By:		SI			
Approved By:		MR			
Date:		09/01/2025			
Rev.	Change	Drawn	App'd.	Date	Print A3 Page 1 of 1

ColourZone

Multizone LED Colour Controller, DMX512 Output

- Suitable for multizone schemes of all sizes
- Produces 6 Zones of DMX512
- Vivid colour rendition and smooth colour change
- Customisable scene, USB2.0 compatible
- 12 scenes available
- Scene speed control
- Dimming adjustment function
- Microsoft Windows compatible
- 1-gang brushed stainless steel plate



Description

ColourZone is a DMX512 colour change LED controller suitable for controlling multiple Zones of lighting. It allows RGBW control for up to 6 Zones of lighting using 12 programmable scenes. These scenes are fully customisable using the ColourZone software provided. The ColourZone controller has speed & dimming functions, allowing the user to fine tune the speed & brightness of the selected scene.

The ColourZone software allows the user to program specific colour sequences for each Zone of lighting within one scene. The software enables the programmer to select a wide range of colours using a very simple colour picker. The speed and hold settings for each scene can be adjusted in the software, providing a wide range of flexibility of control for the project lighting. Please refer to ColourZone Programming Guide for more information.

The ColourZone is supplied with a 1.2m USB cable, 12W 7VDC power supply, metal or plastic 1-gang back box and a ColourZone Software CD.

Controller Operation Guide

Scene Selecting:

Use the Scene Selector Knob to select a specific program. The controller is pre-programmed with 12 routines.

Dimming:

The light output can be dimmed & brightened using the Dimming knob. Turn clockwise to increase the brightness and anti-clockwise to dim the lights.

Speed:

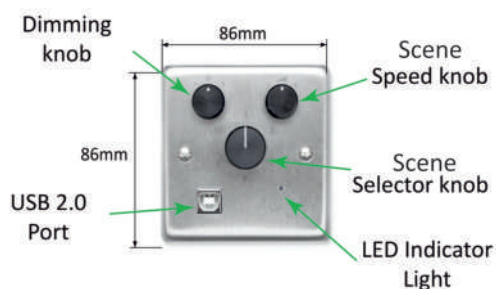
The speed of any running program can be increased or decrease using the Scene Speed knob. Turn clockwise to increase the speed and anti-clockwise to decrease the speed of the selected scene.

USB Port:

USB 2.0 port allows connection to a PC via a USB cable. This allows the user to customise and create scenes within the ColourZone software. For more information see ColourZone Programming Guide.

LED Indicator:

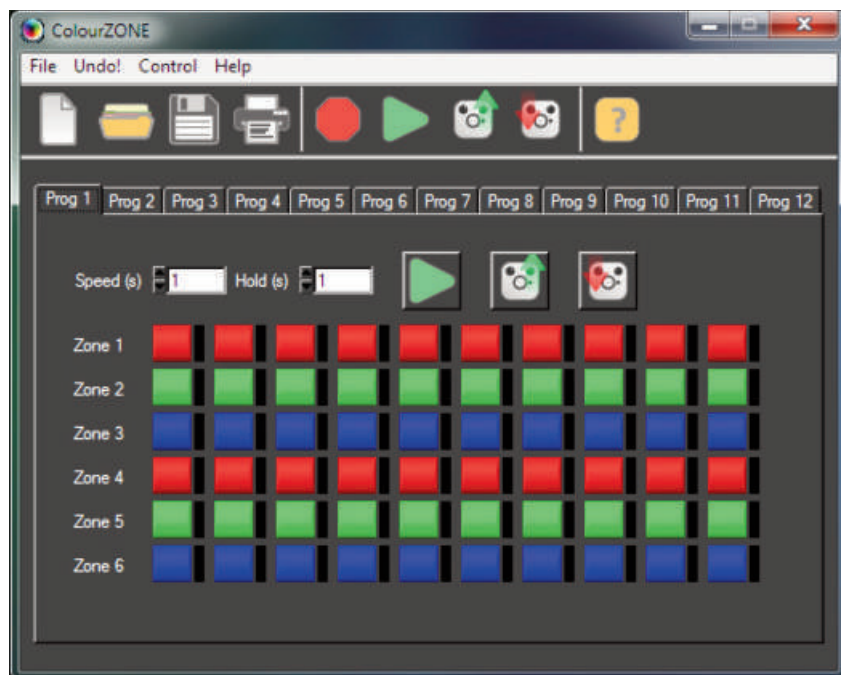
Blue LED light indicates scene selection change, scene upload and software initialisation during power on.



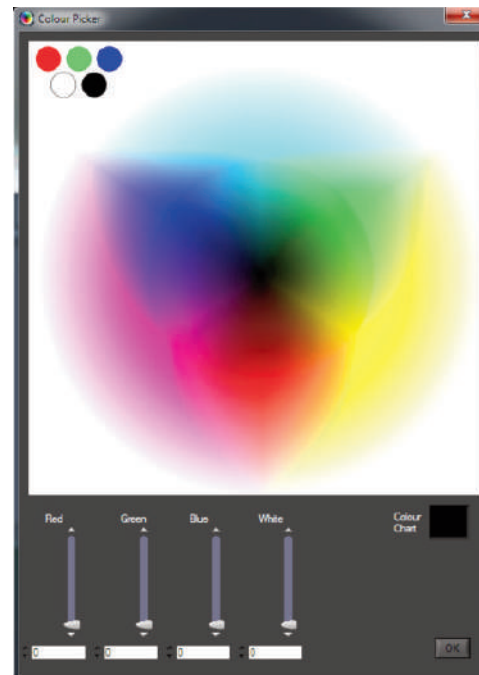
ColourZone

Multizone LED Colour
Controller, DMX512 Output

ColourZone Software - Sample Screen



ColourZone Software Screen - Program 1
(this is a preset program on the controller)



Colour Picker

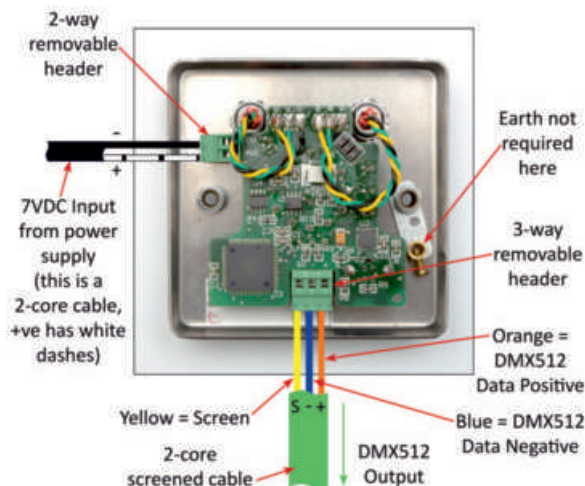
See ColourZone Programming Guide for software set up and custom program instructions.

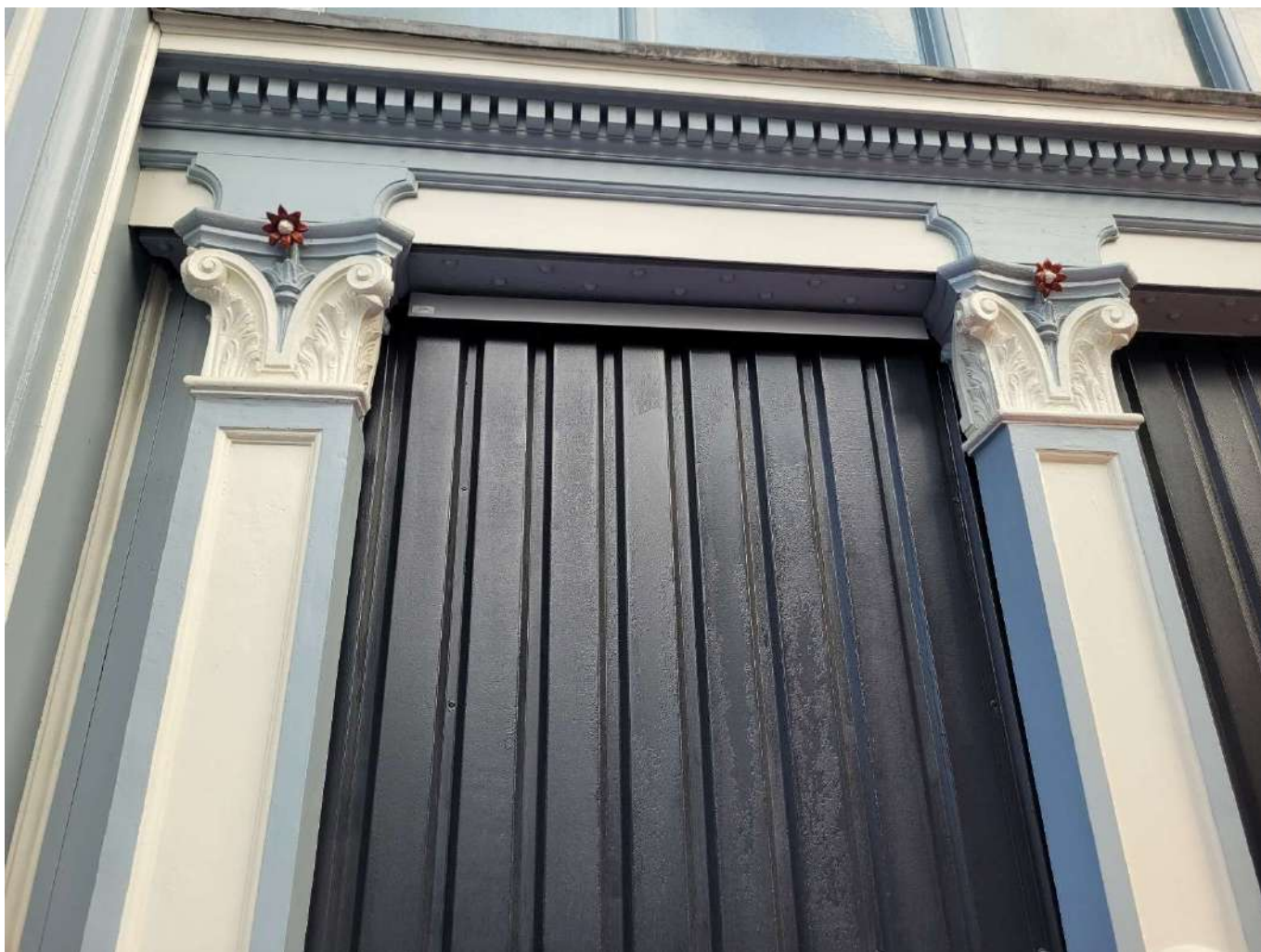
ColourZone Accessories & Wiring

ColourZone Accessories (Supplied with Controller)



Wiring - Internal Rear View of Controller

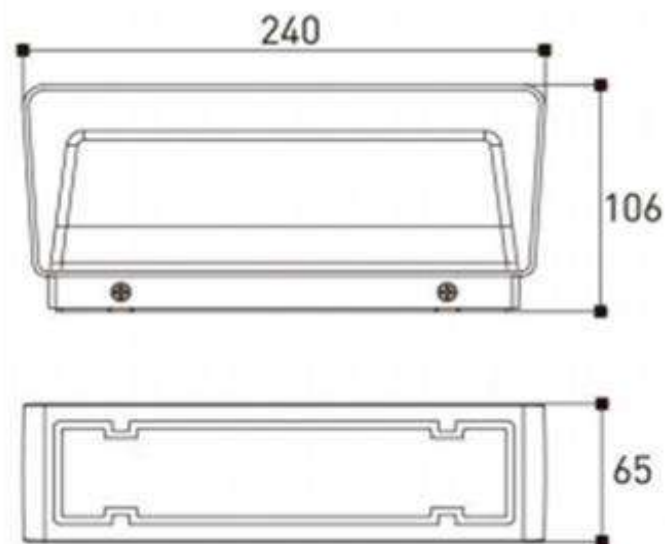




External LED linear lighting mock-up



External LED linear lighting mock-up



CAT NO	COLOUR TEMP (K)	COLOUR RENDERING (RA)	LIFE (L80) (HRS)	TOTAL CONNECTED LOAD	TOTAL DELIVERED LUMENS	LUMINIAIRE SYSTEM EFFICACY (lm/w)	IP RATING	MECHANICAL IMPACT RESISTANCE	FINISH	CONTROL GEAR
FXW1384	4000	80	50,000	13	800	61	IP65	IK08	DARK GREY	FIXED OUT PUT

Add suffix to catalogue number:

DALI: Digital Addressable Lighting Interface.

PD : Phase dimming.**SD:** Dimming with push to make switch.

EM3: 3 hour emergency. **EM3ST:** 3 hour self test emergency.

EM3DALI: DALI addressable emergency.

Please note that with the continuous rapid development in lighting technology, specification values may change. Contact our technical department for details. We reserve the right to amend or change details without prior notification. All performance data is taken at an ambient temperature of +25°C. Lumens and connected system load are subject to an initial tolerance of up to +/- 10%.



Report

Project		
Name	upper campfield	
Images	n/a	
Date	2025-02-18	
Time	10:35:31	
Location	n/a	
Details	n/a	
Issues		
No Image	Issue 1 Unassigned	
No Image	Issue 2 Unassigned	
No Image	Issue 3 Unassigned	
	cctv at tonman street entrance Unassigned	
	cctv at stairwell 2 exit door Unassigned	

	card reader at main entrance door on Liverpool road Unassigned
	cctv at main entrance on Liverpool road Unassigned
	cctv at arcade entrance Unassigned
	card reader at arcade entrance Unassigned
	card reader at tonman street entrance Unassigned

	card reader at stairwell 1 exit door Unassigned
	card reader at door next to roller shutter Unassigned
	cctv at stairwell 1 exit door & at door next to roller shutter Unassigned
	bellbox at roller shutter Unassigned
	bellbox at tonman street entrance Unassigned



bellbox at main entrance on Liverpool road
Unassigned

Summary		
Auditor Company	n/a	
Auditor Name	n/a	
Signature	n/a	

