PROJECT 3
architects



Lower Campfield, Manchester
Lower Byrom Street, M3 4FP

FUL Planning Application Conditions
Condition 16

FUL Planning Application Condition 16

16) The development hereby approved shall include a building and site lighting scheme and a scheme for the illumination of external areas during the period between dusk and dawn. Prior to the first occupation of the development, full details of such a scheme for the development shall be submitted for approval in writing by the City Council, as Local Planning Authority. The approved scheme shall be implemented in full prior to the first occupation of the development and shall remain in operation for so long as the development is occupied.

Attached information to satisfy FUL Condition 16

ELECTRICAL / INTERNAL LIGHTING

01 *- PDF - Hayvern Electrical - Lighting and Emergency Lighting Drawings - X*

02 *- PDF - HART - Internal Lighting Schedule*

03 *- PDF - Hayvern Electrical - Fire Alarm and Security Drawings - X*

04 *- PDF - Hayvern Electrical - Method Statement & Risk Assessment - X*

05 *- PDF - Hayvern Electrical - Site Images - Cable Trays - X*

06 *- PDF - Hayvern Electrical / Solutions - Site Images - Fixings / Gripple Kits / Flange Clamps - X*

07 *- AMSPEC - Internal Lighting Photos*

LIGHTING RIG

08 *- PDF - Project 3 Architects - Lighting Rig Drawing*

09 *- PDF - dbn audible - Lighting Rig Drawing*

10 *- PDF - Lindapter ALP Information*

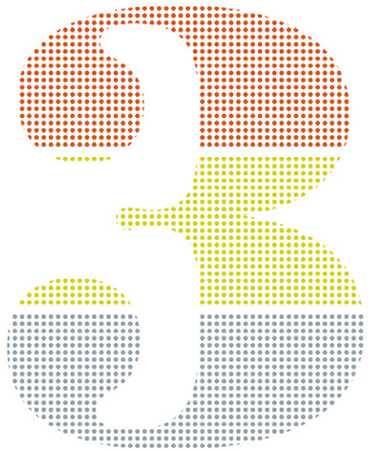
11 *- PDF - Site Images of Lighting Rig*

EXTERNAL LIGHTING

12 *- PDF - LDL Lighting - Lighting Specification Overview*

13 *- PDF - ColourZone - Multizone LED Colour Controller*

14 *- PDF - External Lighting Sample Photos*



ELECTRICAL
Sections 01-07

This section includes Hayvern Electrical's Lighting and Emergency Drawings, Fire Alarm and Security Drawings along with their method statement and risk assessment. There is also HART's lighting schedule. Furthermore there are site photos outlining all electrical fixings that are related to the existing listed structure. Finally photos of the installed lighting.

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.

LIGHTING LEGEND

A	METAL LED HIGH BAY 2500LM CASAMBI 3K
A1	METAL LED HIGH BAY 5000LM CASAMBI 3K
B2	MILLIE SUSPENDED 1.9M MP 200mA CASAMBI BLK 4K
B2E	CASAMBI / EMERGENCY
B3	MILLIE SUSPENDED 1.13M MP 200mA CASAMBI
C	CROOKES L 2 2600lm 3K
CE	EMERGENCY
C1	CROOKES 3 2000LM 3K
C1E	EMERGENCY
C2	CROOKES 2 1400LM 3K
C2E	EMERGENCY
DE	WPZ 4' 4880LM 4K EMR
D1E	WPZ 4' 3580LM 4K EMR
EOS	LED3/CW/BLK/OA/ST
E2	LED3/OA/ST
EXIT	EXIT SIGN - MOUNT AND DIRECTION ON ORDER
EX3	EXIT BULKHEAD SELF-TEST
F	DOM M 1535LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
FE	CASAMBI / EMERGENCY
F1	DOM M 1152LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
F1E	CASAMBI / EMERGENCY
H	CROOKES 3 2000LM 3K CASAMBI
HE	CASAMBI / EMERGENCYTWPZ 5' 3650LM 4K
IE	WPZ 4' 3580LM 4K EMR
J	DOM M 1152LM 60D 3K CASAMBI SUSPENDED
JE	CASAMBI / EMERGENCY
J1	DOM M 1535LM 60D 3K CASAMBI SUSPENDED
J1E	CASAMBI / EMERGENCY
ME	LDB/EMR
N	LED TAPE & EXTRUSION 2700K CASAMBI
P1	MILLIE 600MM OPAL SUSPENDED 3000K CASAMBI RAL3016 200mA
P2	TALIA 400MM 2700K CASAMBI
Q	SURFACE MOUNTED LEILA 1600LM 60D 3000K CASAMBI
R	CROOKES L 2 2600LM 3K CASAMBI
RE	CASAMBI / EMERGENCY
T	JOHN CULLEN VORSA FIX 40
CL6	MUUTO UNFOLD PENDANT TERRACOTTA - EXTENDED CABLE DROP3000K CASAMBI
W1	CREATIVE CABLES - ESSE 14 500MM 3000K CASAMBI
W3	MILOOX - FUJI WALL 2700K CASAMBI
W4	CREATIVE CABLES - ESSE 14 500MM 2700K CASAMBI
W5	MUUTO - TIP WALL - COPPER BROWN - 2700K CASAMBI
X2	RGB EXTERNAL LINAEAR WINDOW LIGHTING - HORIZONTAL MOUNTAPPROX 2M

GENERAL NOTES

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2.0 DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING

LIGHTING LEGEND

/E DENOTES C/W 3 HOUR EMERGENCY BATTERY BACK-UP & LED INDICATOR

LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.

TWO WAY LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.

INTERMEDIATE LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.

DIMMABLE LIGHT SWITCH. 'R' – DENOTES RETRACTIVE ELECTRONIC ON/OFF & DIMMING SWITCH FOR CASAMBI / DALI SYSTEMS. 'xg' –DENOTES NO. OF GANGS.

/R RETRACTIVE LIGHT SWITCH. 'xg' –DENOTES NO. OF GANGS.

/K 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.

/PS LIGHTING CONTROL MANUAL PARTITION SWITCH.

SURFACE MOUNTED DROP DOWN MICROWAVE DETECTOR. 'DIM' – DENOTES DIMMABLE TYPE.

LCM LIGHTING CONTROL MODULE (LCM).

SCS LIGHTING CONTROL SCENE CONTROLLER. 'xg' – DENOTES No. OF GANGS.

5A UNSWITCHED ROUND PIN 5A SOCKET OUTLET ENGRAVED "FOR LIGHTING USE ONLY".

PHOTOELECTRIC CELL.

PROGRAMMABLE TIMECLOCK.

DIM RGB AMPLIFIER & DRIVER.

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.

CP Lighting Controls Legend

Subject	Label
CB/1G	EN-1G-SM-W
CB/2G	EN-2G-SM-W
CB/P1	EBDSPIR-CB-NN
CB/P4D	EBDMR-CB-DD
GEFL	GEFL

CONTINUED ON SHEET 2 OF 2

C2	LIGHTING SCHEME AMENDED	–	SB	29.11.24
C1	UPDATED INLINE WITH NEW LAYOUT COMMENTS RECEIVED & AMENDED HOT WATER STRATEGY, C1 ISSUE	–	SB	12.09.24
Revisions	Description	Ref	Eng	Date

HAYVERN ELECTRICAL LTD • INDUSTRIAL • COMMERCIAL • DOMESTIC

56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	LIGHTING AND EMERGENCY LIGHTING GROUND FLOOR – SHEET 1 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E010
Rev.	C2



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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.
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A1	METAL LED HIGH BAY 5000LM CASAMBI 3K
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B2E	CASAMBI / EMERGENCY
B3	MILLIE SUSPENDED 1.13M MP 200mA CASAMBI
C	CROOKES L 2 2600lm 3K
CE	EMERGENCY
C1	CROOKES 3 2000LM 3K
C1E	EMERGENCY
C2	CROOKES 2 1400LM 3K
C2E	EMERGENCY
DE	WPZ 4' 4880LM 4K EMR
D1E	WPZ 4' 3580LM 4K EMR
EOS	LED3/CIR/BLK/OA/ST
E2	LED3/OA/ST
EXIT	EXIT SIGN - MOUNT AND DIRECTION ON ORDER
EX3	EXIT BULKHEAD SELF-TEST
F	DOM M 1535LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
FE	CASAMBI / EMERGENCY
F1	DOM M 1152LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
F1E	CASAMBI / EMERGENCY
H	CROOKES 3 2000LM 3K CASAMBI
HE	CASAMBI / EMERGENCY1WPZ 5' 3650LM 4K
IE	WPZ 4' 3580LM 4K EMR
J	DOM M 1152LM 60D 3K CASAMBI SUSPENDED
JE	CASAMBI / EMERGENCY
J1	DOM M 1535LM 60D 3K CASAMBI SUSPENDED
J1E	CASAMBI / EMERGENCY
ME	LDB/EMR
N	LED TAPE & EXTRUSION 2700K CASAMBI
P1	MILLIE 600MM OPAL SUSPENDED 3000K CASAMBI RAL3016 200mA
P2	TALIA 400MM 2700K CASAMBI
Q	SURFACE MOUNTED LEILA 1600LM 60D 3000K CASAMBI
R	CROOKES L 2 2600LM 3K CASAMBI
RE	CASAMBI / EMERGENCY
T	JOHN CULLEN VORSA FIX 4Q
CL6	MUUTO UNFOLD PENDANT TERRACOTTA - EXTENDED CABLE DROP3000K CASAMBI
W1	CREATIVE CABLES - ESSE 14 500MM 3000K CASAMBI
W3	MILOOX - FUJI WALL 2700K CASAMBI
W4	CREATIVE CABLES - ESSE 14 500MM 2700K CASAMBI
W5	MUUTO - TIP WALL - COPPER BROWN - 2700K CASAMBI
X2	RGB EXTERNAL LINAEAR WINDOW LIGHTING - HORIZONTAL MOUNTAPPROX 2M

GENERAL NOTES

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LIGHTING LEGEND

/E	DENOTES C/W 3 HOUR EMERGENCY BATTERY BACK-UP & LED INDICATOR
	LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
	TWO WAY LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
	INTERMEDIATE LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
	DIMMABLE LIGHT SWITCH. 'R' – DENOTES RETRACTIVE ELECTRONIC ON/OFF & DIMMING SWITCH FOR CASAMBI / DALI SYSTEMS. 'xg' –DENOTES NO. OF GANGS.
/R	RETRACTIVE LIGHT SWITCH. 'xg' –DENOTES NO. OF GANGS.
/K	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.
/PS	LIGHTING CONTROL MANUAL PARTITION SWITCH.
	SURFACE MOUNTED DROP DOWN MICROWAVE DETECTOR. 'DIM' – DENOTES DIMMABLE TYPE.
LCM	LIGHTING CONTROL MODULE (LCM).
SC	LIGHTING CONTROL SCENE CONTROLLER. 'xg' – DENOTES No. OF GANGS.
5A	UNSWITCHED ROUND PIN 5A SOCKET OUTLET ENGRAVED "FOR LIGHTING USE ONLY".
PC	PHOTOELECTRIC CELL.
TC	PROGRAMMABLE TIMECLOCK.
DIM	RGB AMPLIFIER & DRIVER.
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.

CP Lighting Controls Legend

Subject	Label
CB/1G	EN-1G-SM-W
CB/2G	EN-2G-SM-W
CB/P1	EBDSPIR-CB-NN
CB/P4D	EBDMR-CB-DD
GEFL	GEFL

C2	LIGHTING SCHEME AMENDED	–	SB	29.11.24
C1	UPDATED INLINE WITH NEW LAYOUT COMMENTS RECEIVED & AMENDED HOT WATER STRATEGY, C1 ISSUE	–	SB	12.09.24
Revisions	Description	Ref	Eng	Date

HAYVERN ELECTRICAL LTD
• INDUSTRIAL • COMMERCIAL • DOMESTIC
56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	LIGHTING AND EMERGENCY LIGHTING GROUND FLOOR – SHEET 2 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E011
Rev.	C2

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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.
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LIGHTING LEGEND

A	METAL LED HIGH BAY 2500LM CASAMBI 3K
A1	METAL LED HIGH BAY 5000LM CASAMBI 3K
B2	MILLIE SUSPENDED 1.9M MP 200mA CASAMBI BLK 4K
B2E	CASAMBI / EMERGENCY
B3	MILLIE SUSPENDED 1.13M MP 200mA CASAMBI
C	CROOKES L2 2600lm 3K
CE	EMERGENCY
C1	CROOKES 3 2000LM 3K
C1E	EMERGENCY
C2	CROOKES 2 1400LM 3K
C2E	EMERGENCY
DE	WPZ 4' 4880LM 4K EMR
D1E	WPZ 4' 3580LM 4K EMR
EOS	LED3/CIR/BLK/OA/ST
E2	LED3/OA/ST
EXIT	EXIT SIGN - MOUNT AND DIRECTION ON ORDER
EX3	EXIT BULKHEAD SELF-TEST
F	DOM M 1535LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
FE	CASAMBI / EMERGENCY
F1	DOM M 1152LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
F1E	CASAMBI / EMERGENCY
H	CROOKES 3 2000LM 3K CASAMBI
HE	CASAMBI / EMERGENCYWPZ 5' 3650LM 4K
IE	WPZ 4' 3580LM 4K EMR
J	DOM M 1152LM 60D 3K CASAMBI SUSPENDED
JE	CASAMBI / EMERGENCY
J1	DOM M 1535LM 60D 3K CASAMBI SUSPENDED
J1E	CASAMBI / EMERGENCY
ME	LDB/EMR
N	LED TAPE & EXTRUSION 2700K CASAMBI
P1	MILLIE 600MM OPAL SUSPENDED 3000K CASAMBI RAL3016 200mA
P2	TALIA 400MM 2700K CASAMBI
Q	SURFACE MOUNTED LEILA 1600LM 60D 3000K CASAMBI
R	CROOKES L 2 2600LM 3K CASAMBI
RE	CASAMBI / EMERGENCY
T	JOHN CULLEN VORSA FIX 40
CL6	MULTO UNFOLD PENDANT TERRACOTTA - EXTENDED CABLE DROP3000K CASAMBI
W1	CREATIVE CABLES - ESSE 14 500MM 3000K CASAMBI
W3	MILOOX - FUJI WALL 2700K CASAMBI
W4	CREATIVE CABLES - ESSE 14 500MM 2700K CASAMBI
W5	MUUTO - TIP WALL - COPPER BROWN - 2700K CASAMBI
X2	RGB EXTERNAL LINEAR WINDOW LIGHTING - HORIZONTAL MOUNTAPPROX 2M

GENERAL NOTES

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LIGHTING LEGEND

- /E — DENOTES C/W 3 HOUR EMERGENCY BATTERY BACK-UP & LED INDICATOR
- LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
- TWO WAY LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
- INTERMEDIATE LIGHT SWITCH. 'xg' – DENOTES No. OF GANGS.
- DIMMABLE LIGHT SWITCH. 'R' – DENOTES RETRACTIVE ELECTRONIC ON/OFF & DIMMING SWITCH FOR CASAMBI / DALI SYSTEMS. 'xg' –DENOTES NO. OF GANGS.
- /R — RETRACTIVE LIGHT SWITCH. 'xg' –DENOTES NO. OF GANGS.
- /K — 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.
- /PS — LIGHTING CONTROL MANUAL PARTITION SWITCH.
- SURFACE MOUNTED DROP DOWN MICROWAVE DETECTOR. 'DIM' – DENOTES DIMMABLE TYPE.
- LCM — LIGHTING CONTROL MODULE (LCM).
- SC — LIGHTING CONTROL SCENE CONTROLLER. 'xg' – DENOTES No. OF GANGS.
- 5A — UNSWITCHED ROUND PIN 5A SOCKET OUTLET ENGRAVED "FOR LIGHTING USE ONLY".
- PC — PHOTOELECTRIC CELL.
- TC — PROGRAMMABLE TIMECLOCK.
- DIM — RGB AMPLIFIER & DRIVER.
- 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.

CP Lighting Controls Legend

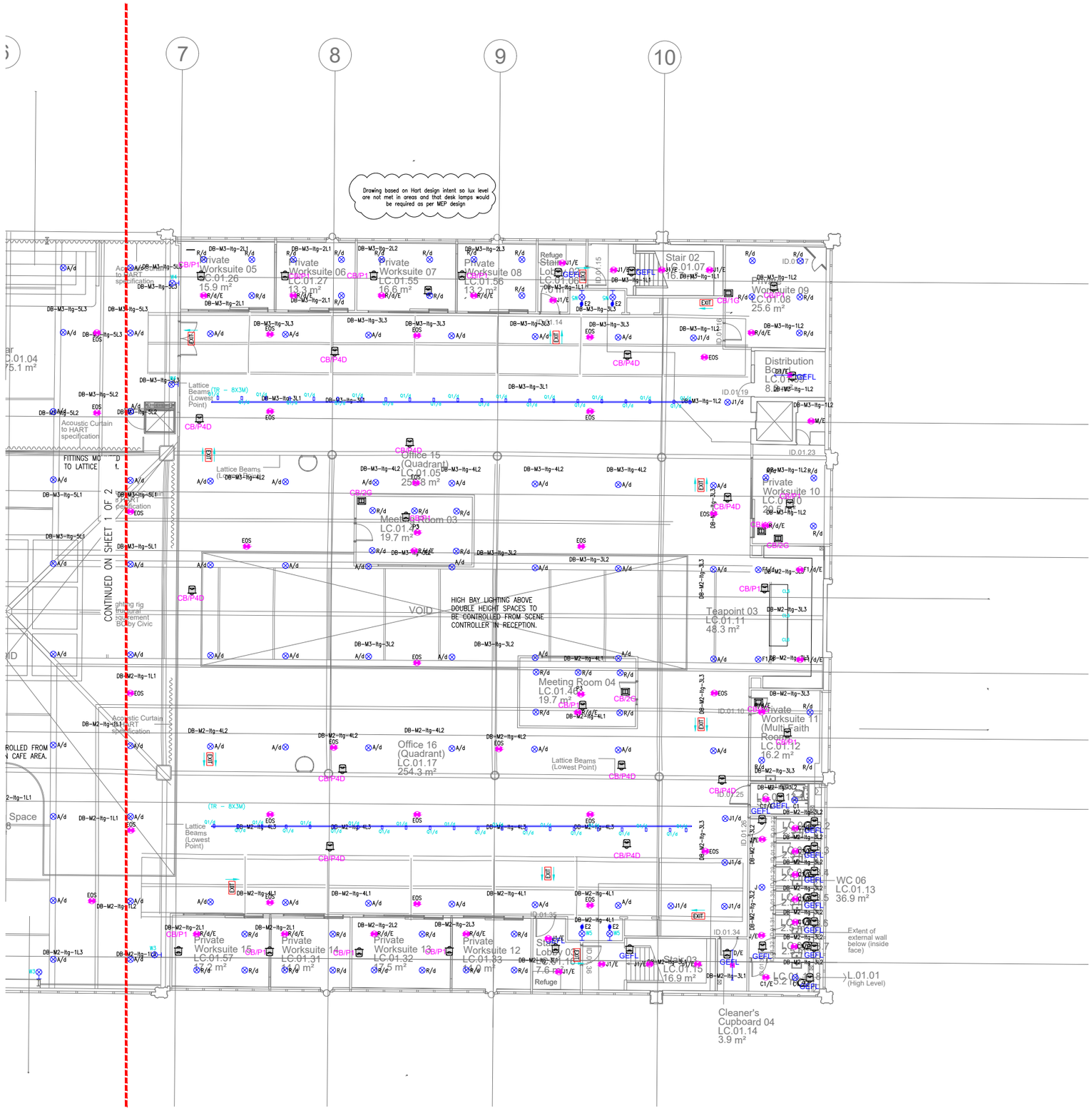
Subject	Label
CB/1G	EN-1G-SM-W
CB/2G	EN-2G-SM-W
CB/P1	EBDSPIR-CB-NN
CB/P4D	EBDMR-CB-DD
GEFL	GEFL

CONTINUED ON SHEET 2 OF 2

Revisions	Description	Ref	Eng	Date
C1	UPDATED INLINE WITH NEW LAYOUT COMMENTS RECEIVED & AMENDED HOT WATER STRATEGY, C1 ISSUE	–	SB	12.09.24

HAYVERN ELECTRICAL LTD
• INDUSTRIAL • COMMERCIAL • DOMESTIC
56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	LIGHTING AND EMERGENCY LIGHTING HIGH LEVEL MEZZANINE – SHEET 1 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E014
Rev.	C1



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W/T	ITEM MOUNTED AT WORKTOP LEVEL.
WP	DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
EX	DENOTES EXISTING TO BE RETAINED.
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R.T.A.	RISE TO ABOVE.
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- RETRACTIVE LIGHT SWITCH. '*g' –DENOTES NO. OF GANGS.
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- LIGHTING CONTROL MANUAL PARTITION SWITCH.
- SURFACE MOUNTED DROP DOWN MICROWAVE DETECTOR. 'DIM' – DENOTES DIMMABLE TYPE.
- LCM — LIGHTING CONTROL MODULE (LCM).
- SC — LIGHTING CONTROL SCENE CONTROLLER. '*g' – DENOTES No. OF GANGS.
- 5A — UNSWITCHED ROUND PIN 5A SOCKET OUTLET ENGRAVED "FOR LIGHTING USE ONLY".
- PC — PHOTOELECTRIC CELL.
- TC — PROGRAMMABLE TIMECLOCK.
- DIM — RGB AMPLIFIER & DRIVER.
- EXIT — 3 HOUR SELF CONTAINED, NON-MAINTAINED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.
- LEXIT — 3 HOUR SELF CONTAINED, NON-MAINTAINED DOUBLE SIDED EMERGENCY EXIT SIGN WHERE ARROW DENOTES DIRECTION OF LEGEND PANEL.

CP Lighting Controls Legend

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CB/1G	EN-1G-SM-W
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CB/P4D	EBDMR-CB-DD
GEFL	GEFL

LIGHTING LEGEND

	METAL LED HIGH BAY 2500LM CASAMBI 3K
	METAL LED HIGH BAY 5000LM CASAMBI 3K
	MILLIE SUSPENDED 1.9M MP 200mA CASAMBI BLK 4K
E	CASAMBI / EMERGENCY
	MILLIE SUSPENDED 1.13M MP 200mA CASAMBI
	CROOKES L 2 2600M 3K EMERGENCY
	CROOKES 3 2000LM 3K
E	EMERGENCY
	CROOKES 2 1400LM 3K
E	EMERGENCY
	WPZ 4' 4880LM 4K EMR
E	WPZ 4' 3580LM 4K EMR
S	LED3/CIR/BLK/OA/ST
	LED3/OA/ST
IT	EXIT SIGN - MOUNT AND DIRECTION ON ORDER
3	EXIT BULKHEAD SELF-TEST
	DOM M 1535LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
	CASAMBI / EMERGENCY
	DOM M 1152LM 60D 3K CASAMBI C/W SUSPENSIONS & CEILING PLATE
E	CASAMBI / EMERGENCY
	CROOKES 3 2000LM 3K CASAMBI
	CASAMBI / EMERGENCYTWPZ 5' 3650LM 4K
	WPZ 4' 3580LM 4K EMR
	DOM M 1152LM 60D 3K CASAMBI SUSPENDED
	CASAMBI / EMERGENCY
	DOM M 1535LM 60D 3K CASAMBI SUSPENDED
E	CASAMBI / EMERGENCY
	LDB/EMR
	LED TAPE & EXTRUSION 2700K CASAMBI
	MILLIE 600MM OPAL SUSPENDED 3000K CASAMBI RAL3016 200mA
	TALIA 400MM 2700K CASAMBI
	SURFACE MOUNTED LEILA 1600LM 60D 3000K CASAMBI
	CROOKES L 2 2600LM 3K CASAMBI
	CASAMBI / EMERGENCY
	JOHN CULLEN VORSA FIX 40
6	MUUTO UNFOLD PENDANT TERRACOTTA - EXTENDED CABLE DROP3000K CASAMBI
1	CREATIVE CABLES - ESSE 14 500MM 3000K CASAMBI
3	MILOOX - FUJI WALL 2700K CASAMBI
1	CREATIVE CABLES - ESSE 14 500MM 2700K CASAMBI
5	MUUTO - TIP WALL - COPPER BROWN - 2700K CASAMBI
	RGB EXTERNAL LINEAR WINDOW LIGHTING - HORIZONTAL MOUNTAPPROX 2M

Revisions	Description	Ref	Eng	Date
C1	UPDATED INLINE WITH NEW LAYOUT COMMENTS RECEIVED & AMENDED HOT WATER STRATEGY, C1 ISSUE	–	SB	12.09.24

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56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	LIGHTING AND EMERGENCY LIGHTING HIGH LEVEL MEZZANINE – SHEET 2 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E015
Rev.	C1

HART

23-071: LIGHTING SCHEDULE

LC_sL	**Project**	**Lower Campfield**
	Date	**02 May 2024**

Client Address	Project Address
All Work & Social Bonded Warehouse 18 Lower Byrom Street Manchester M3 4AP	Lower Campfield Liverpool Road Manchester M3 4FP

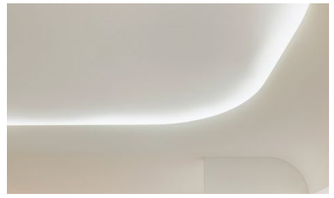
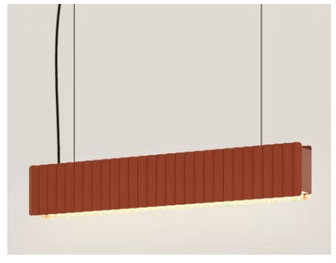
Revision:				
		T1	Stage 3+ Tender	15/12/2023
		T2	Stage 3+ Tender	26/01/2024
		C1	Stage 3+ Construction	02/05/2024
			Stage 3+ information to be developed by the contractor/subcontractors for construction. Subject to any VE or contract admissions / omissions undertaken by the client	

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 not 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	F & F/E	Gardens / Ground Floor Teapoints / Café	 Ceiling rose to be bespoke colour, RAL tbc	Suspended downlight 'can' fitting	Black Ceiling rose to be bespoke colour, RAL tbc (to match soffit)	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
CL2	G & G/E	Stairs / Corridors		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
~~CL3~~					~~Omitted~~			
CL4	J1 & J1/E	WC Lobbies		Surface-mounted downlight 'can' fitting	Black	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	B2 & B2/E B3 & B3/E	Ground Floor Offices	 Design intent image	Suspended linear light	Black	Tbc by MEP Design	Tbc by MEP Design	Light temp: 4000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL6	CL6	Mezzanine Teapoints		Suspended linear light **Quantity of 3 above each teapoint islands**	Terracotta 325mm diameter	Unfold Pendant Extended suspension drop is required due to high soffit height	Muuto	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings

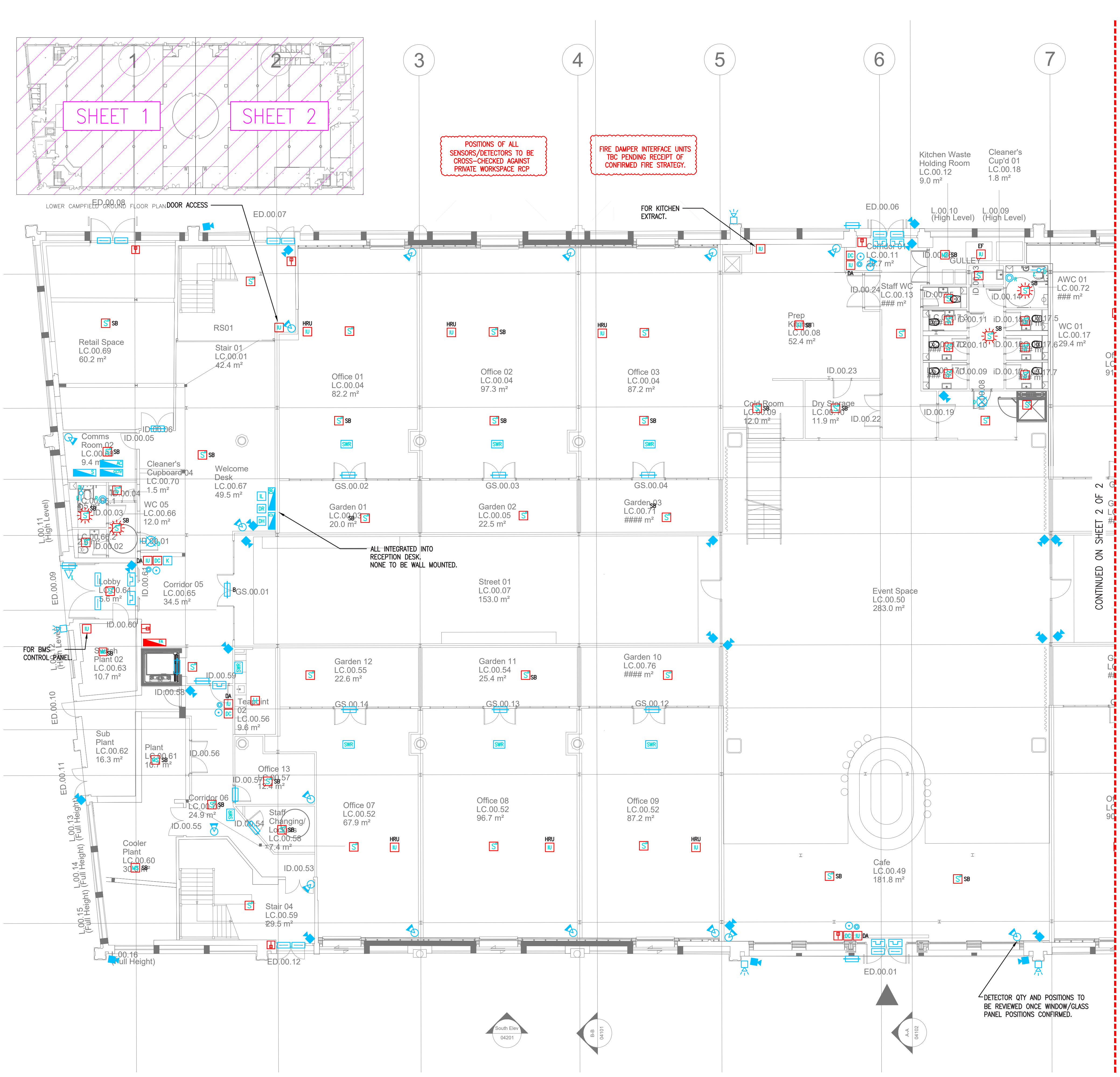
HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
CL7	G & G/E F & F/E	Event Space / Mezzanine Teapoints	 Ceiling rose to be bespoke colour, RAL tbc	Suspended downlight 'can' fitting Fittings to the Events Space will be installed at approx. 7-8m AFFL, so they should be sized to suit this height	Black Ceiling rose to be bespoke colour, RAL tbc (to match soffit)	Force Extended suspension drop is required due to high soffit height Size tbc by MEP Design	Mount Lighting	Light temp: 2700k to Events Space 3000k to Mezzanine Teapoints Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
CL8	D & D/E	BOH Areas	To MEP Engineer's proposals					
CL9	I & I/E	Prep Kitchen	To MEP Engineer's proposals					
D1	C & C/E	WC Cubicles / Cleaners Cupboards		Recessed downlight IP rating tbc by MEP Engineer	White	Laguna	Mount 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	Laguna	Mount 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	Q	Gardens		Surface-mounted spotlight with narrow beam Fixed within flange of columns, shining downwards	Black	Vorse Fix 40	John Cullen Lighting	Light temp: 3000k Dimmable: Yes Or acceptable equivalent, client to approve

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
D5	R & R/E	Corridor 01 / Mezz Private Worksuites		Recessed downlight	White	Velo	Mount Lighting	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
D6		Meeting Rooms	 Design intent image	Recessed downlight Fittings to be installed within acoustic cladding to soffit	Colour tbc following specification of acoustic cladding Contractor to allow for bespoke colour	Tbc by MEP Design	Tbc by MEP Design	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
LL2	N	Teapoints / Bar Joinery / Café Joinery	To MEP Engineer's proposals					Light temp: 2700k to Bar Joinery and Café Joinery 3000k to Mezzanine Teapoints Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
LL3	N1	Café		Continuous concealed LED light, to coffered ceiling detail	N/A	LED strip c/w Bendable, recessed trimless profile	Ansell Lighting	Light temp: 2700k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
P1	P1	Reception		Suspended decorative pendant **Quantity of 2 above reception desk**	Coral Red (RAL 3016)	Dune Suspended 600mm	299 Lighting	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
P2	P2	Café		Suspended decorative pendant	Opal with black body	Jugen	Miloox	Light temp: 2700k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
P3	P3	Meeting Rooms		Suspended decorative pendant **Quantity of 1 above each meeting table**	Black	Fine Suspension Lamp 90cm	Muuto	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve
P4	P4	Bar		Suspended decorative pendant	Opal with black body	Jugen	Miloox	Light temp: 2700k 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
P5	S	Various		High-bay suspended pendant	Silver	Hangar MEP Design to confirm if proposed fitting achieves client requiements	Ideal Lux	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
P6	A	Mezzanine Open Plan Areas		High-bay suspended pendant	Silver	Hangar MEP Design to confirm if proposed fitting achieves client requiements	Ideal Lux	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve To contain integrated emergency fittings
~~P7~~				~~Omitted~~				
P8		West entrance		External surface-mounted light, low profile IP rating tbc by MEP Engineer	Black	Tap Surface MEP to confirm if this fitting has the required IP rating	Nexia	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
T1		Mezzanine Bar		Bar top lamp Material: Lacquered metal, stainless steel Dimensions H: 50cm/19.7in, Ø: 23cm/9.1in	Chrome plated	Flowerpot VP3	&tradition	Light temp: 3000k Target Lux Level: 200 Lux Dimmable: Yes Wiring to be concealed and fed from below. Or acceptable equivalent, client to approve

HART Ref Code	MEP Design Ref Code	Location	Image	Description	Colour/Finish	Product Code	Manufacturer	Notes
W1	W1	Stairs		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
W2		Café		Wall-mounted vertical tube light With opal/porcelain effect bulb	Black	Esse 14 - 500mm	Creative Cables	Light temp: 2700k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
W3	W3	Mezzanine Lounge		Wall-mounted light	Black	Fuji Wall	Miloox	Light temp: 2700k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
W4	W4	Bar		Wall-mounted vertical tube light With opal/porcelain effect bulb	Black	Esse 14 - 500mm	Creative Cables	Light temp: 2700k Target Lux Level: 200 Lux Dimmable: Yes Or acceptable equivalent, client to approve
W5	W5	Printer Hub		Wall-mounted light	Copper Brown	Tip Wall	Muuto	Light temp: 3000k Target Lux Level: 300-350 Lux Dimmable: Yes Or acceptable equivalent, client to approve



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.

INTRUDER ALARM LEGEND

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

CCTV LEGEND

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



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

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2.0 DATASHEETS OF ALL VISIBLE ITEMS ARE REQUIRED FOR REVIEW AND APPROVAL BY INTERIOR DESIGNER.

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. 'B' DENOTES BATTERY OPERATED WIRELESS SMART DOOR LOCK.
- THUMB TURN CYLINDER LOCK C/W INTEGRATED CARD REA
- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- DOOR CONTROLLER.
- INTERCOM.
- DOOR INTERCOM HANDSET.
- REMOTE DOOR RELEASE BUTTON.
- SALTO WIRELESS ROUTER.
- MAGLOCK.

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

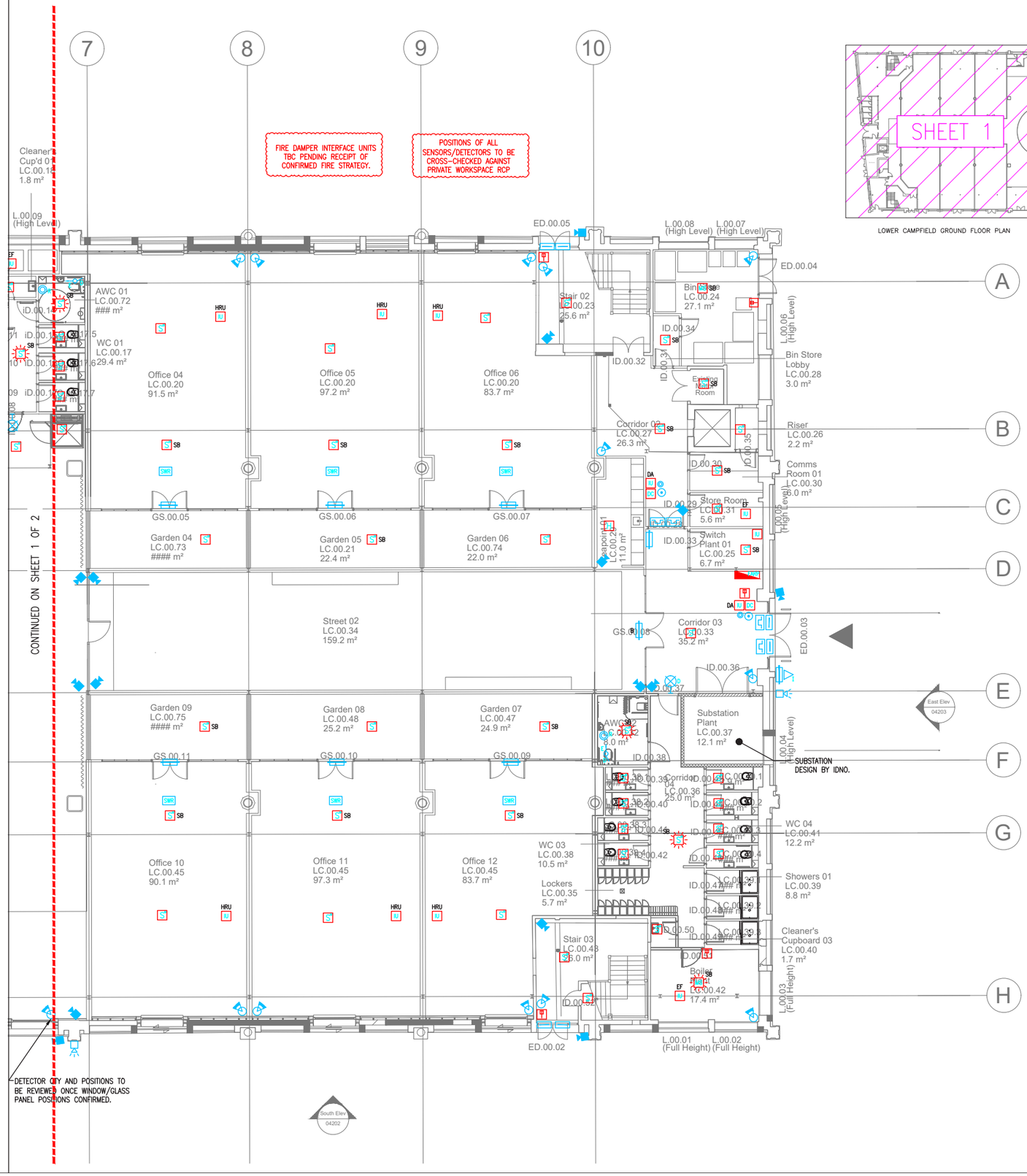
- DISABLED REFUGE ALARM PANEL.
- DISABLED REFUGE ALARM CALL POINT.

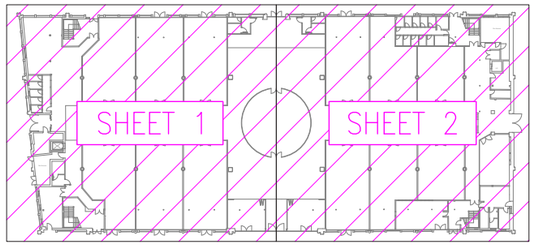
Revisions	Description	Ref	Eng	Date
C2	REVISED FOLLOWING COMMENTS	–	SB	13.11.24
C1	UPDATED INLINE WITH NEW LAYOUT & COMMENTS RECEIVED	–	SB	09.10.24

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56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	FIRE ALARM AND SECURITY GROUND FLOOR – SHEET 1 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E016
Rev.	C2





LOWER CAMPFIELD GROUND FLOOR PLAN

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.
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- HEAT DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
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- 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.

INTRUDER ALARM LEGEND

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

CCTV LEGEND

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



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

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GENERAL LEGEND

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- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- DOOR CONTROLLER.
- INTERCOM.
- DOOR INTERCOM HANDSET.
- REMOTE DOOR RELEASE BUTTON.
- SALTO WIRELESS ROUTER.
- MAGLOCK.

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.

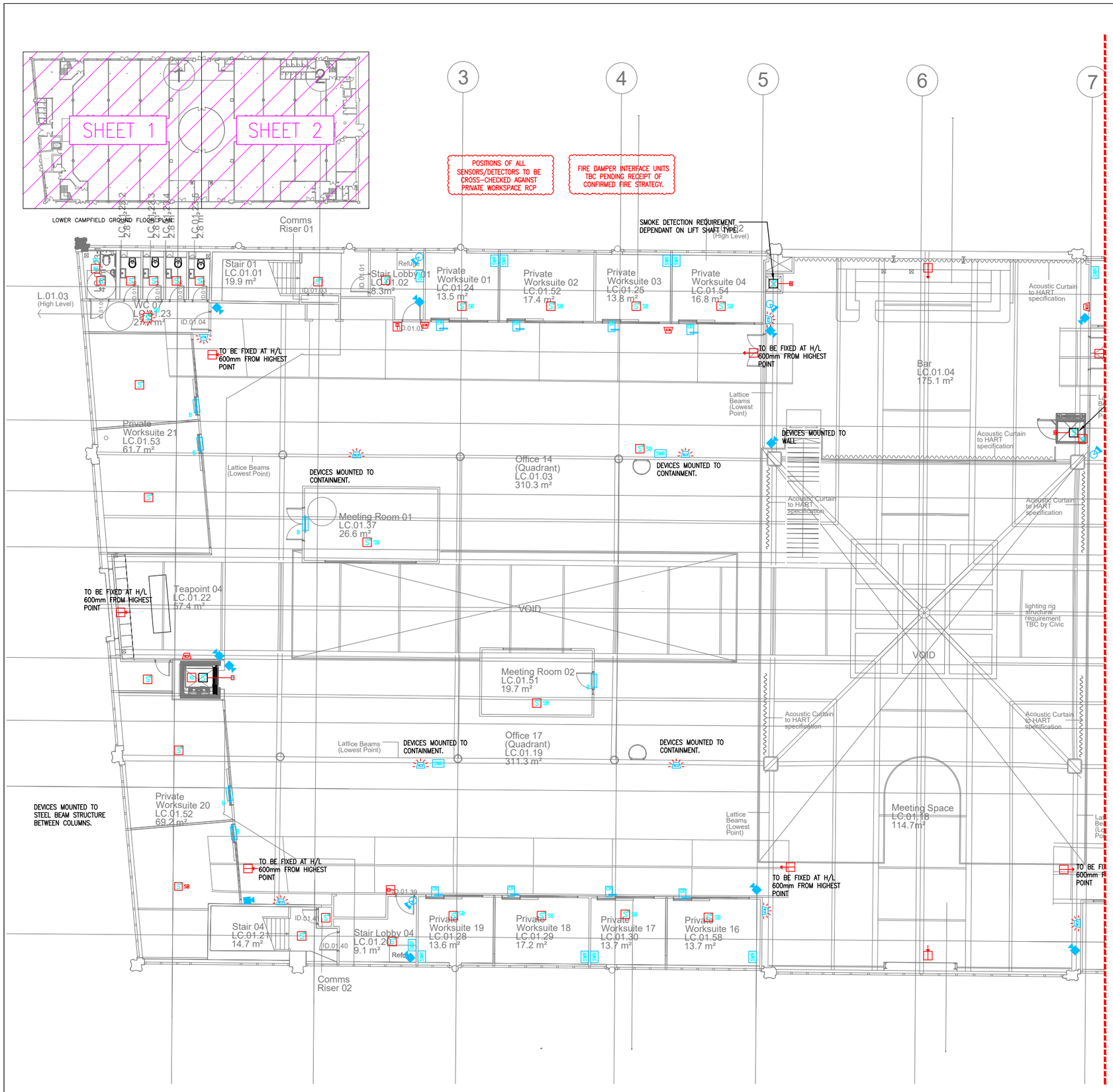
DISABLED REFUGE LEGEND

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

Revisions	Description	Ref	Eng	Date
C2	REVISED FOLLOWING COMMENTS	–	SB	13.11.24
C1	UPDATED INLINE WITH NEW LAYOUT & COMMENTS RECEIVED	–	SB	09.10.24

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Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	FIRE ALARM AND SECURITY GROUND FLOOR – SHEET 2 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E017
Rev.	C2



CONTINUED ON SHEET 2 OF 2

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FIRE ALARMS LEGEND

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- FIRE ALARM REPEATER PANEL.
- MANUAL CALL POINT.
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- 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.

INTRUDER ALARM LEGEND

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

CCTV LEGEND

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



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

GENERAL NOTES

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SERVICES SPECIFIC NOTES

1.0 COLOUR/FINISH OF ALL VISIBLE MEP/ACCESS CONTROL/FIRE/CCTV ITEMS IS TBC BY INTERIOR DESIGNER.

2.0 DATASHEETS OF ALL VISIBLE ITEMS ARE REQUIRED FOR REVIEW AND APPROVAL BY INTERIOR DESIGNER.

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. 'B' DENOTES BATTERY OPERATED WIRELESS SMART DOOR LOCK.
- THUMB TURN CYLINDER LOCK C/W INTEGRATED CARD RE
- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- DOOR CONTROLLER.
- INTERCOM.
- DOOR INTERCOM HANDSET.
- REMOTE DOOR RELEASE BUTTON.
- SALTO WIRELESS ROUTER.
- MAGLOCK.

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.

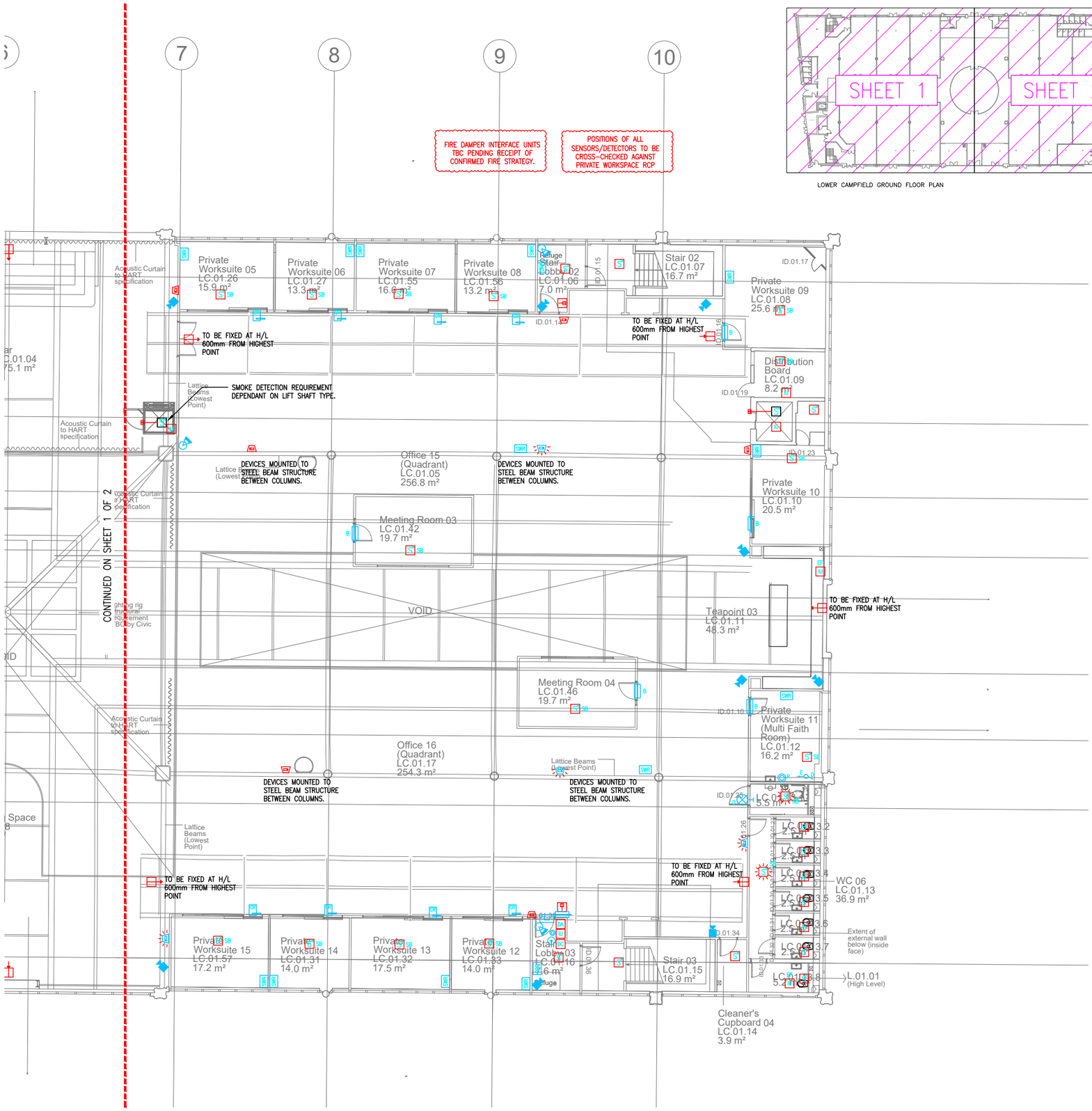
DISABLED REFUGE LEGEND

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

Revisions	Description	Ref	Eng	Date
C2	REVISED FOLLOWING COMMENTS	–	SB	13.11.24
C1	UPDATED INLINE WITH NEW LAYOUT & COMMENTS RECEIVED	–	SB	09.10.24

HAYVERN ELECTRICAL LTD
• INDUSTRIAL • COMMERCIAL • DOMESTIC
56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	FIRE ALARM AND SECURITY MEZZANINE – SHEET 1 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E018
Rev.	C2



LOWER CAMPFIELD GROUND FLOOR PLAN

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.

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.

INTRUDER ALARM LEGEND

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

CCTV LEGEND

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



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

GENERAL NOTES

1.0 THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS & DRAWINGS PROVIDED BY MEP DESIGN.

2.0 DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING

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HAYVERN ELECTRICAL LTD
• INDUSTRIAL • COMMERCIAL • DOMESTIC
56 QUEEN STREET, FARNWORTH, BOLTON, 01204 579975

Client	AMSPEC
Project Title	LOWER CAMPFIELD
Drawing Title	FIRE ALARM AND SECURITY MEZZANINE – SHEET 2 OF 2
In Association with	–
Drawn by	HCE
Checked by	DC
Date	25.04.24
Scales	1:100 (work to figured dimensions)
DRG No.	C4488/E019
Rev.	C2

HAYVERN ELECTRICAL LIMITED
56 QUEEN STREET
FARNWORTH
BOLTON
BL4 7DX

Tel : 01204 579975
Fax : 01204 571845

METHOD STATEMENT

&

RISK ASSESSMENT

ELECTRICAL INSTALLATIONS

LOCATION : Lower Campfield Market
Lower Byrom Street
Manchester
M3 4FP

HAYVERN ELECTRICAL LIMITED
56 Queen Street, Farnworth, Bolton, Lancs BL4 7DX
Tel : 01204 579975 Fax : 01204 571845

Ref : HE MS C4488 Date : 18/04/2024

Lower Campfield Market
Internal Alterations
Method Statement

This method statement details the sequence of works to carry out the electrical installation work in connection with the internal alterations within Lower Campfield Market, Lower Byrom Street, Manchester M3 4FP.

Commencement Date : 24/04/2024
Completion Date : TBC

1. Services to be provided within the Electrical Installation:
   - (a) Installation of Site Temporary services
   - (b) Installation of new General, Emergency & External Lighting
   - (c) Installation of new Small Power
   - (d) Strip Out / Isolations
   - (e) Installation of new Fire Alarm Devices & Disabled Refuge System
   - (f) Installation of new Containment Systems
   - (g) Installation of new LV Distribution
   - (h) Installation of new Data
   - (i) Installation of new Intruder Alarm
   - (j) Installation of new Door access
   - (k) Installation of new CCTV
   - (f) Testing

2. All Hayvern Electrical & any relevant sub-contractors working for Hayvern Electrical will comply with the appropriate legislation & codes of practice with particular reference to:-
   - CDM Regulations 2015
   - H&S At Work Act 1974
   - Management of H&S at Work Regulations 1999
   - All Client Site Rules & Procedures
   - All relevant Hayvern Electrical Limited Codes of Practice
   - The Electricity at Work Regulations 1989
   - RIDDOR 2013
   - COSHH

3. Description of Works :

   This Project entails the Strip Out and new installation works to the Ground and Mezzanine levels of Lower Campfield Market, Lower Byrom St, in Manchester to carry out the new installation of the Electrical Services to the building on behalf of Allied London.
   Works include the reconfiguration of the existing electrical building services systems and installation of new systems in-line with the Electrical Design Drawings.
   Works will include the installation of new Distribution Equipment that all the new Lighting & Power Circuits will be fed from..
   A digital multifunction meter will be installed on the main incoming switch of the new main switchboard and similar metering shall be provided on each of the outgoing ways to separate sub-metering for the building.

   New Lighting, Power Supplies, Data requirements CCTV & Door Access Systems, Containment & fire alarm cabling to be installed to Ground and mezzanine levels of the building.

The lighting will comprise of LED Luminaires :
Level 1 Ground and mezzanine : LED Surface Luminaires suspended on chains
External :LED Lighting controlled by timeclock & photocells

Installation of Supplies to Mechanical Services/Equipment.
CCTV, Door Access & Fire Alarm Systems will be installed throughout the Building.

The main fire alarm panel will be located within the entrance area from Lower Byrom Street and additional repeater panel Byrom St will be installed at the entrance from . The Security installations will be undertaken by specialist contractors to supply, install & commission the systems.

All Circuits that are to be altered/adapted will be isolated at source by a competent approved Electrician. The Circuit will be locked off with a Padlock or the MCB will be removed and retained with operative at all times. This will then be tested to ensure all live parts are "DEAD"
NO LIVE WORKING WILL TAKE PLACE.
We will isolate the Circuit's, by "locking off" the MCB/Isolator and then installing appropriate Warning Notices stating:
"Men working – DO NOT SWITCH ON".
Once the Circuit has been isolated and locked off, we will establish that no voltage is present utilising a test lamp plug-in device so works will commence only when it has been confirmed that no voltage is present at the existing sockets and the fused connection units.

We will use the following hand tools and test equipment.

a) Insulated screw drivers
b) Cable croppers
c) Proving meter
d) Multifunctional Tester
e) Voltage tester

On completion of our works the existing and new circuits will be tested in accordance with BS7671 IEE 18th Edition Wiring Regulations and all results reported on NICEIC Test Sheets. On satisfaction of all test results the circuits will be re-energised.

All isolation to be agreed with the Client before work will commence.

Podium Steps/Mobile Towers/Hop-Ups will be used for the installation where works not possible from ground position. Competent operatives only to undertake high level work and wearing appropriate PPE/Harness equipment. If necessary, Scissor Lift may be required which will only be operated by qualified operatives. Stepladders will be used when other access equipment not possible in particular work areas and that are unsuitable for the task in hand.

4.0 Arrival on Site
- Leave work access areas clean and tidy at all times
- Upon completion of operations, advise Client
- Report to Client's Site Agent – Sign in & Out
- Delivery to Site all necessary materials/equipment
- Carry out works in accordance with job specification
- PPE will be worn at all times

5.0 Personal Protective Equipment
- Safety boots & Hi-Visibility vest/jacket are to be worn at all times
- Gloves to be worn for safe unloading of steel tray work, trunking, brackets, conduit, steel tray work etc
- Safety gloves will be worn by all operatives whilst on site.
- Hard hats to be worn at all times
- Facial masks, dust masks or goggles are to be used when task specific.

6.0 Site Induction
Prior to commencing on site, all operatives are to attend a site induction.
HEL Site Supervisor to oversee and communicate the Assessment & safe system of work to all site operatives in Toolbox Talks prior to works commencing and will monitor & review the Assessment throughout the Contract. Any relevant Covid-19 Risks will be advised within the initial Induction administered by the Main Contractor and our RAMS have been updated to include the required control measures that HEL Operatives are to adhere to. Any necessary additions/amendments to the RAMS will be made as and when required and then approved by the MC.

7.0 Site Deliveries
Deliveries of materials to site will be controlled and arranged for morning arrival with 48hours prior notice given. Hayvern Electrical Ltd Site Supervisor will give supervision of delivery vehicles when they enter site and will also ensure safe movement of vehicle and safe removal of materials.
All materials will be stored in an designated area agreed with the site agent.

8.0 Site Rules
All employees, sub-contractors and site visitors will be informed of their responsibility with regard to Health & Safety, both to themselves and fellow workers and the public in general. The Site Manager will observe the compliance of the site rules by Site Operatives, Sub Contractors, Drivers and Visitors. All operatives found to be not complying will be asked to leave.

Matters arising resulting from variation instruction will be added to the rules when and if appropriate.

All visitors, drivers and operatives will be inducted in the site rules and will sign to acknowledge their understanding.

The following rules will apply :

All visitors will comply with the recommendations for accessing and egressing the site all in accordance with the agreed routes from the Induction.

All visitors must report immediately to the site manager.
Unauthorized persons will be excluded from the site. Site personnel will be informed of the close proximity of general public & staff at all times.

The 5mph compound speed limit is to be observed and adhered to by all operatives, visitors & drivers.

Fire fighting equipment will be provided within the designated working area and on-site welfare facilities will be equipped with sufficient & appropriate fire extinguishers. A safety zone will be established whenever welding or "hot works" occur.

All operatives on site must wear identification at all times.

Visitors to the site must read the Health & Safety Plan and they will be requested to observe the Site Safety Rules.

The site will be designated a **hardhat and protective footwear area** and they **must** be worn at all times.

Manual handling will be carried out all in accordance with the Manual Handling Operation Regulations 1992.

All ladders and tools are to be locked away or removed when not in use.

Where undertaking service connections or other work outside the defined boundary of the site, the work areas will be clearly identified and securely protected.
All the statutory regulations will be observed.

No Smoking on Site.
No radios or personal audio equipment allowed on site.
The use of drugs or the consumption of alcohol is strictly forbidden.

There will be no burning allowed on site at any time (STRICTLY FORBIDDEN)

Hot working will only be carried out on a strict permit to work policy issued by the site manager.

Site personnel are required to inform the site manager immediately if there is an accident involving personal injury. Site Supervisor is competent in administering First Aid and a basic First Aid Kit is retained in all Company Vehicles. In the event of a serious/major injury, Site Manager to inform Head Office (William Newsome) and call for the Emergency/Ambulance Services if necessary, if not, transport the casualty to the nearest A&E Department (if safe to do so). Salford Royal Hospital, Stott Lane, Salford, Manchester, M6 8HD. Tel : 0161 789 7373
All appropriate report details as per Reporting Procedures.

All appropriate report details as per Reporting Procedures.
Site personnel are required to inform the site manager immediately if there is any damage to plant and equipment.

Due to the works being within close proximity to public areas the use of foul, abusive or racist language will not be tolerated and offenders will be removed from site.

9.0 Contact Details of the Organisations associated with the Contract.

Principal Contractor : Amspec Limited
Kilshaw Street
Pemberton
Wigan
WN5 8EA
Tel : 01942 621342

HSE : Health & Safety Executive
Grove House
Skelton Road
Manchester
M16 ORB
Tel : 0161 952 8200

Contact Details :

Amspec-	Andrew Maxwell	-	CEO
	Mobile Number	-	07702 569321
	David Hare	-	Head of Projects
	Mobile Number	-	0773 322431
	Carl Barber	-	Project Manager
	Mobile Number	-	07949 936572
Hayvern	Billy Newsome	-	Managing Director
	Mobile No	-	07815 749602
	Neil Openshaw	-	Site Supervisor
	Mobile No		07762 478265
	Dave Cross	-	Contracts Manager
	Mobile No	-	07966 841928

10.0 Continuing Liaison

The Client / Main Contractor will be notified immediately of any implications to Health & Safety if there are any unforeseen eventualities during the execution of this project.

Should there be an accident/reportable incident on site Hayvern Electrical Limited will report this immediately to the Principal Contractor who will inform the HSE.

Hayvern Electrical Limited will attend regular site meetings to discuss any Health & Safety issues and to discuss any relevant changes to works that been provided through Hayvern Electrical Limited offices. This would be in the format of a Contract Instruction or confirmation of verbal instructions from site via the client/designer and subsequently would be exchanged with the site supervisor for Hayvern Electrical Limited.

Hayvern Electrical Limited will assume responsibility for further development of Hayvern Electrical Limited Health & Safety Plan and will update it where and when necessary.

11.0 General Information

11.1 Fire Evacuation / Emergency Procedures
The Site Manager will inform all operatives, sub-contractors, etc., on site of the appropriate fire evacuation procedures. The Site Manager will ensure that all relevant personnel are made fully aware & are clear/concise in regards to the fire assembly points as agreed in Induction with Amspec Limited.

11.2 Production of Risk Assessments & Method Statements
All necessary Risk Assessments & Method Statements must be issued to the Site Supervisor prior to commencement on site.
Any further revisions & alterations must be agreed with the Site Manager for approval and subsequent inclusion with the H&S Plan retained on site.

11.3 Welfare Facilities
Hayvern Electrical operatives to utilise the agreed facilities.

11.4 Asbestos
Should asbestos be found present in any of the associated working areas, all works will immediately cease and the CDM Co-ordinator, Client & Contract Administrator must be informed.
Only upon receipt of written confirmation that areas are "clean" & "clear" of the substance, will works be resumed.

12.0 COVID-19 : Preventative Controls & Measures you **MUST** adhere to following the release of Revision 9.1 of the Construction Leadership Council Guidelines.

12.1 Anyone with symptoms of high temperature (37.8c) or more / hot to the touch on back or chest) and/or a new persistent cough will be sent home to self-isolate.

12.2 Wash hands regularly with soap and water for 20seconds and always wash your hands when going into and out of different areas or if you have left the workplace and returned

Signed : .....D.CROSS.....

Date : .....18/04/2024.....

Issue 1
18/04/2024

Company Registration No. 4443376 VAT No. 787 727563
NICEIC Approved Contractor ENROL No. 19861
Director : W.NEWSOME

HAYVERN ELECTRICAL LIMITED
56 QUEEN STREET, FARNWORTH, BOLTON, LANCS BL4 7DX
Tel : 01204 579975 Fax : 01204 571845

RISK ASSESSMENT

Contract: **Lower Campfield Manchester**
Date: **18/04/2024**
Work : **Internal Refurbishment**

Hazard, Hazardous event & Who may be Harmed	Risk	Assessment of Risk after Risk Controls (1-5)			Risk Controls
		L Level	C Level	R Level	
Entry/Exit to Site Site Operatives	Slip/Trip/Fall	1	3	3	(a) Prior to entering site all operatives/personnel will be inducted and the relevant access & egress routes will be confirmed by Amspec. These will be followed and monitored at all times to reduce the risk of unauthorised access. (b) These routes will be kept clear at all times and all equipment removed away on daily basis.
Working on Stepladders Site Operatives/High Level Operatives	Falls (Persons & Objects) Fractures /Fatalities	2	2	4	(a) Visual inspection prior to use, tagged/labelled and defects reported. (b) Stepladders will only be utilised whereupon works cannot be accessed from the ground and only used on a flat base. (c) Only used for light and short periods (20mins/10kg) (d) Ensure 3 points of contact at all times. (e) Never use top 3 rungs and ensure all steps are clean/dry. (f) Competent and trained operatives wearing appropriate PPE. (g) Exclusion zone to be clearly identified. (h) Non-conductive equipment to be used if working near "LIVE" equipment.
Storage of Materials / Equipment Site Operatives	Falling Materials/Cuts	1	3	3	(a) The storage location will be agreed with the Main Contractors Site Manager and will remain in a tidy orderly nature throughout the Contract period. (b) Equipment will be locked away on a daily basis to reduce trips/falls. (c) Exclusion zone to be clearly identified.
Scaffold / Work at Height High Level Operatives/ Sub-Contractors	Falls from height, cuts, Fractures, fatality	1	3	3	(a) For works requiring a platform height greater than 1.0m MST/Podium must be used by trained competent operatives with IPAF/PASMA Qualifications. (b) Appropriate safety wear/harness and PPE will be worn at all times. (c) Scaff Tags will be utilised and no tools or materials will be left on the scaffold when in motion to reduce the risk of falling items. (d) Scaffold Tower MUST be erected on solid flat base by trained competent Operative and visual inspection undertaken prior to use.

Hazard, Hazardous event & Who May be Harmed	Risk	Assessment of Risk after Risk Controls (1-5)			Risk Controls
		L Level	C Level	R Level	
Portable Electric Tools (Drills, Grinders, etc) Site Operatives	Trip/Fall/Fire/ Electrocution	2	2	4	(a) All Portable Equipment is tested & inspected, and a visual inspection will be carried out prior to each use. (b) Only equipment operating 110v or less to be permitted on site. (c) All Guards must be used and under no circumstances should they be removed or interfered with. (d) Leads/Extension cables must not trail across walkways/floors and should be routed along perimeter walls to prevent trips. (e) All leads to be fully extended to reduce overheating & electrical fires. (f) Grinders only used in a clear area away from flammable liquid/materials, within a limited user time and commenced only upon receipt of Hot Work Permit issued from Main Contractor (g) Power Tools to be used by competent and trained operatives wearing appropriate PPE (Eye Masks, Face Masks, Ear Defenders, etc)
Electric Shock Electricians	Electrocution/ Fire/Fatality	2	2	4	(a) All Circuits/Boards to be worked on will be locked off by removal of MCB or Padlocked at the Board. Isolation undertaken ONLY by competent qualified Electrician using isolation methods in accordance with Electricity At Work – Safe Working Practices (HSG85) (Third Edition) Published 2013 (b) Tested appropriately prior to re-energising again by Qualified Electrician. (c) NO LIVE WORKS will be carried out. (d) Walls screened & checked for presence of cables by competent operative. (e) All tools and equipment visually inspected. (f) Signage displayed to warn of working on system.
Delivery/Off Loading Materials Site Operatives/Public/ Sub Contractors	Crushing/Cuts/M H Injury	2	2	4	(a) Operatives will wear hard hat, boots, HI vis vest & Gloves for off-loading to reduce injury of cuts from trunking/tray etc., and any falling items. (b) The Traffic Management system will be agreed at induction with MC Site Manager for the correct procedures to adhere to for all delivery vehicles.
Use of Hop Ups High Level Operatives/ Sub-Contractors	Falls from height, cuts, Fractures, fatality	2	2	4	(a) For the works access up to a 2.5m height Hop-Ups are required. (b) Ensure the hop-ups are fully & correctly erected on a flat and stable base and have been inspected for any defects. (c) Check your hop-up for the weight limit and never exceed this with any combination of your weight and materials. (d) Works to be undertaken by trained and competent operatives wearing appropriate harness/PPE. (e) Work duration on Hop-Ups to be minimised to a 20minute working time.

Hazard, Hazardous event & Who may be Harmed	Risk	Assessment of Risk after Risk Controls (1-5)			Risk Controls
		L Level	C Level	R Level	
Manual Handling Site Operatives	Back Injuries, Strains, etc	2	2	4	(a) 2No operatives must carry out moving of larger electrical equipment (b) Correct PPE to be provided and worn at all times (Boots, Gloves, etc) (c) Utilise trolley/Mobile Device wherever practical (d) Ensure work areas are clear prior to relocation/movement of equipment (e) Manual Handling Techniques to be administered at all times
Exposure to Hand Vibration & Noise Site Operatives / Clients / Staff / General Public	HAVS, Hearing Problems/Loss, Tinnitus, etc	3	2	6	(a) Utilise Vibration & Noise Damped equipment wherever possible. (b) Ensure tools & equipment are checked and tested and defects reported (c)Time Limits on usage per operative – kept to a minimum (d) Wear relevant PPE – Ear Defenders & Gloves (e)Make clients/staff fully aware of times when noisy activities will be carried Out to protect their workers. (Usually arranged for early mornings)
Exposure to Dust Site Operatives / Clients / Staff	Breathing Difficulties, Eye Irritation	3	3	9	(a) Ensure appropriate PPE worn at all times of Dust Exposure works (b) Dust to be vacuumed as opposed to swept (c)Close off room to be worked in to reduce risk of dust spread together with use of dust sheets or dust guards (d) Ventilate the room by open windows where possible (e)Restrict personnel from entering work area at all times
Falling Debris Site operatives / General Public	Falling Materials, Bumps, Bruises, Cuts, etc	2	3	6	(a) Work areas to be kept tidy (b) Operatives to ensure objects cannot fall outside the site boundary (c) On scaffolds utilise toe-boards, brick guards and netting (d) Display warning signs / exclusion zones / Barriers in public areas
COVID-19 Spread of Virus through droplets of saliva or discharge from the nose (sneeze of cough) Site Operatives & Visitors	Infection passed from infected person – could cause severe illness or death	3	3	9	(a) Wash Hands regularly with soap and water and utilise on-site hand sanitisers when moving from area to area (b) Co-ordinate & consider with other occupiers/contractors/staff/public (c) Staggered Breaktimes to be administered to reduce quantity of people (d) Ventilate areas of works if possible. (e) Stay at home if tested positive

Company Registration No. 4443376 VAT No. 787 7275 63
NICEIC Approved Contractor ENROL No. 19861
Director : W.NEWSOME

Project Title : C4488	Lower Campfield
Method / Risk Statement and Title:	RAMS
Date:	18/04/2024

I confirm I have had an explanation and have been provided with the relevant copies of the Method Statement / Risk Assessment and understand the safe systems of work employed.

Name	Signature	Company	Date

I confirm the above have had a detailed method statement / risk assessment incorporating the necessary safe systems of work explained and issued to them for the safe completion of this phase of work

Signed: Name: Date:

IF IN DOUBT ASK – NEVER ASSUME









Gripple Loop End Fixing

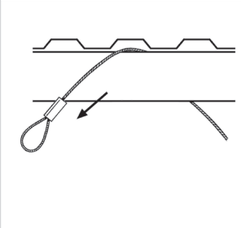
End fixing that is ideal for looping around purlins, beams, roof trusses and other accessible building features.

ADVANTAGES

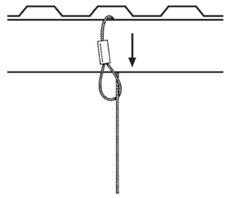
- Quick, simple choke-knot installation.
- No need for nuts, bolts, clamps or other accessories.
- Up to 6 times faster installation compared with threaded rod or chain.
- Available in No.1 - No.5
- Supplied in a ready-to-use kit with a length of wire and a Gripple.
- Also available in a Stainless Steel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



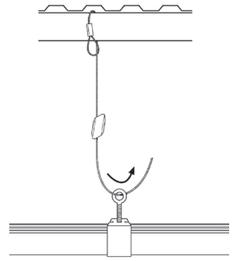
INSTALLATION



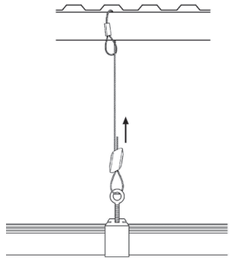
1. Pass the loop end over the building feature.



2. Thread the tail wire through the loop to create a choke knot.

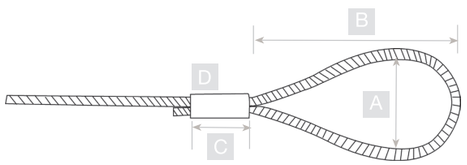


3. Use Gripple to attach the service to the loop and adjust the height.



4. The completed installation.

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

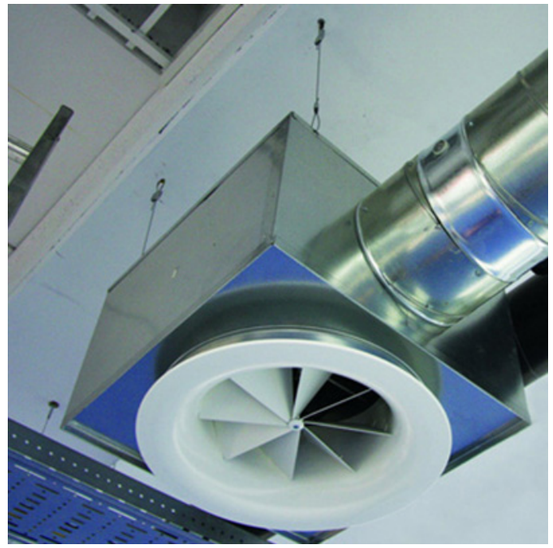
1. Construction materials and conditions vary on different sites. If it suspected that the base material has insufficient strength to achieve a suitable fixing, contact Gripple Ltd. The responsibility for judgement of base material strength lies with the installer, and not with Gripple Ltd.

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.

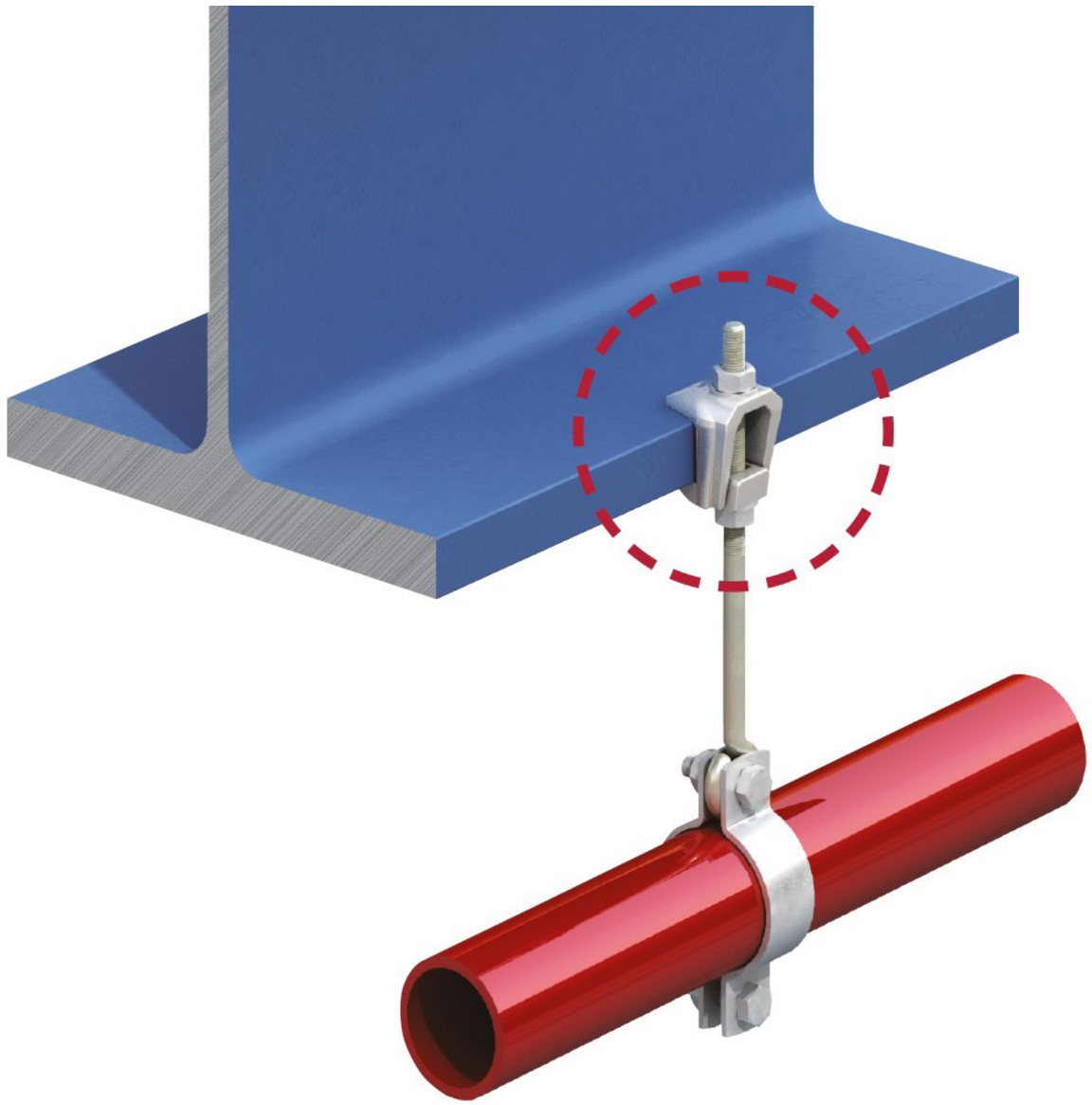














Office Lighting





Accent Downlighting







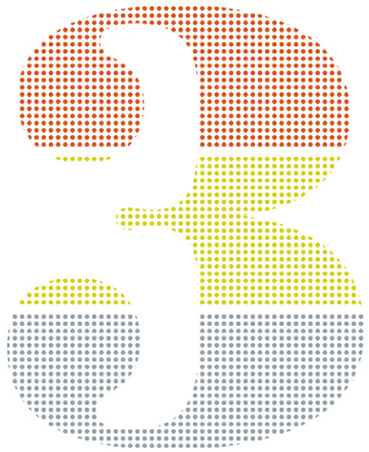
WC Lighting





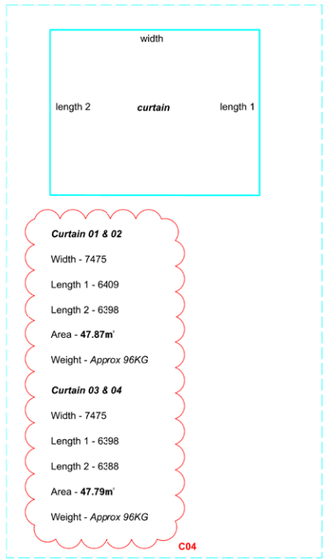


Suspended Lighting



LIGHTING RIG
Sections 08-11

This section includes Project 3 Architects section outlining the location of the lighting rig, DBN Audibles technical drawing outling the plan and design of the rig, Lindapters information regarding clamps to the existing structure and site images of the lighting rigs fixings and the lighting rig in situ.



Notes:

Do not scale from this drawing.
All dimensions are in millimetres unless otherwise noted.
All dimensions to be checked on site before proceeding with work.
All omissions and discrepancies to be reported in writing to Project 3 Architects Ltd.
Areas indicated on this drawing are approximate and indicative only.
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Mounting points show are indicative.
All mounting poits to be decided by structural engineer.

All heights and widths of curtain to be site checked. Curtain bottom should sit 50mm above FFL.

Curtain track should align with underside of lattice truss so when curtain is in open posistion there is continues site line at undeside of existing truss.

Rev:	Date:	Description:	By:
C04	16/12/24	Curtain Height	JG
C03	18/10/24	Curtain and Lighting Rig	JG
C02	05/07/24	Tencer 02 Amend	JG
C01	01/05/24	Construction Issue	JG
T04	11/04/24	Additional Amends	JG
T03	28/03/24	HART Changes	JG
T02	29/11/23	Updated as per comments	ws
T01	27/10/23	First Issue	ws

2 m 0 2 4 6 m

Key:

01 Proposed Mezzanine Deck; Concrete metal and mezzanine structure to SE detail and specification. 75mm screed topping to deck. Floor finishes to HART specification (HART FF drawing series).

02 Existing ground floor slab. Leveling compound spec in office spaces to SE recommendation. Floor finshes to HART specification.

03 Existing roof access ladded to be cut back and made accessible from mezzanine level.

04 Proposed internal walls. Refer to (22) Series for further details.

05 Proposed metal guarding with mesh infill. Refer to (20) and (29) Series for further details,

~~06 Indicative proposed lighting. Design and specification by HART (HART CL drawing series and Lighting Schedule LC-sL).~~

07 Foundations assumed. Refer to SE for further details.

08 Mechanical services to underside of slab. Web openings to steel beams for services to be coordinated with SE and MEP.

09 Proposed external windows. Refer to (31) Series for further details.

10 Proposed louvres. Refer to (30) Series for further details.

11 Proposed external doors. Refer to (31) Series for further details.

12 Proposed internal doors. Refer to (32) Series for further details.

13 Proposed internal glazing. Refer to (23) Series for further details.

~~14 Bleacher seating to Event Space by HART (HART drawing LC-dJ-04).~~

15 Proposed metal staircase. Refer to (24) Series for further details.

16 Proposed acoustic curtains. Structural support to SE detail and design.

17 Proposed cantilevered 'pods' at mezzanine level. Detail and Design by HART (HART KS drawing series).

18 Proposed platform lift to HART specification.

19 Kitchen design and details by HART (HART KI drawing series).

20 Access control by HART.

21 Proposed ceiling layouts by HART (HART CL drawing series).

22 Overdoor air curtain to MEP design and specification.

23 Destratification fans to MEP design and specification. Locations shown indicatively on the sections.

~~24 Radiant panels to MEP design and specification. Locations shown indicatively on the sections.~~

Drawing References:

This drawing is to be read in conjunction with the following drawing series:

(00) Series Site Information
(03) Series Demolition Drawings
(04) Series GA Plans, Sections & Elevations
(09) Series Acoustic Plans
(12) Series FS & BR Plans
(20) Series Mezzanine Deck Details
(22) Series Internal Partition Details
(23) Series Glazed Screen Details
(24) Series Stair Details
(29) Series Architectural Metalwork Details
(30) Series External Louvre Details
(31) Series External Window & Door Details
(32) Series Internal Door Details

Notes:

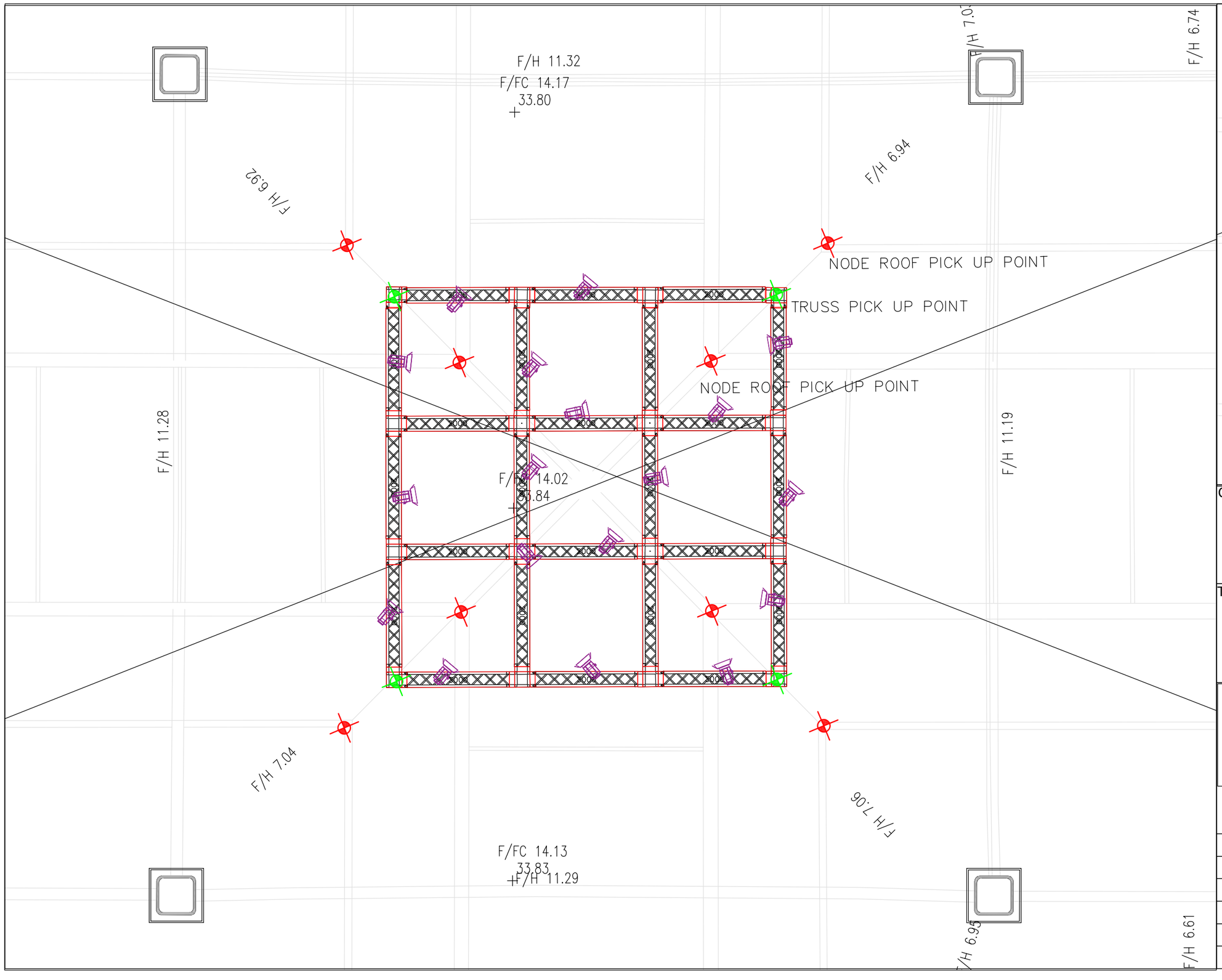
-All drawings subject to Building Control approval
-All dimensions shown to be site checked

Proposed Section A-A: Short section through event space

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WA14 1DY

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mail@project3architects.com
www.project3architects.com

Project:
Lower Campfield
Liverpool Rd, Manchester
Title:
Proposed GA Section
A-A
Status: CONSTRUCTION
Scale @ ISO A1: 1:100
Drawing Number: 0774-P3A-XX-XX-DR-A-04101
Revision: C04



Notes

MP 120 LED Fresnel WW

Truss Corner Block

Truss Corner Block

Truss Pick Up Point

Building Pick Up Point

Client

ALLIED LONDON

Title

LowerCampfield

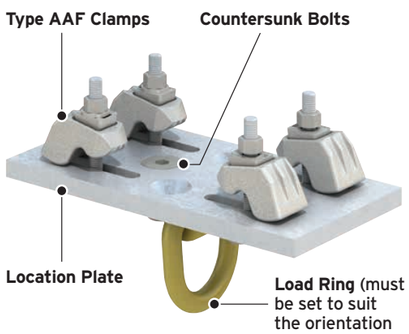
dbn audible

Unit 4 The Redwing Centre
Mosley Rd, Trafford Park
Manchester M17 1RJ
0161 273 4297

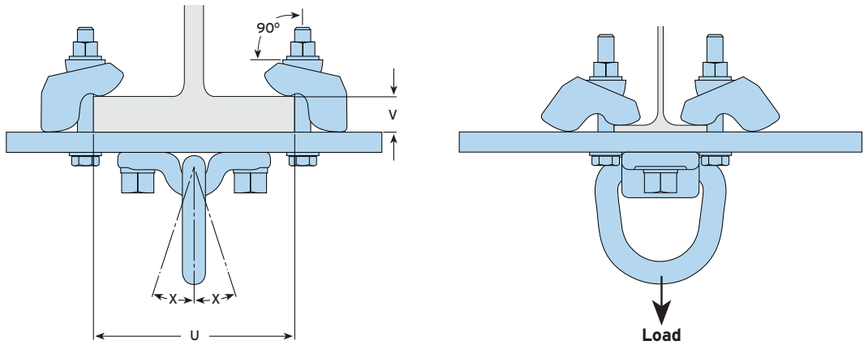
Drawing No:	
Revision:	
Issued for:	SA09310 QV1
Drawn By:	Nick Walton
Date:	01/10/24
Scale:	NTS

Type ALP

Lindapter's standard rigging and lifting solution adjusts to suit the beam width, flange thickness and orientation of the lift. Safely supports loads up to three metric tonnes.







- Available 'off-the-shelf' with a safe working load up to 3t (29.4kN).
- Large load ring can be set to suit the lift orientation.
- Adjusts to suit different sized beams and can be easily repositioned.
- Suitable for parallel and tapered beams up to and including 10°.

- **Suitable for supporting the lifting and rigging of equipment only.**
- **The ALP assembly must be regularly inspected for signs of wear or damage, in accordance with the standards / regulations of the country of use.**
- **Static Safe Working Load values are subject to the capacity of the supporting sections. Please refer to the ALP user guide for guidance.**

Material: Type AAF clamps (low temperature SG iron, hot dip galvanised), Location Plate (mild steel, hot dip galvanised) and Load Ring (forged steel, painted).

Product Code	Torque Figures* Load Ring Countersunk Bolts		Type AAF Set Screws		Clamping Range Flange Thickness V	Beam Width U	Safe Working Loads (FOS 4:1)	Max Angle of Load X
	10.9 Bolt	Torque Nm	8.8 Bolt	Torque Nm	mm	mm		
ALP 3T-1	M16	100	M12	90	5 - 26	70 - 210	3t (29.4kN)	18°
ALP 3T-2	M16	100	M12	90	5 - 26	190 - 330	3t (29.4kN)	18°
ALP 3T-3	M16	100	M12	90	5 - 26	310 - 450	3t (29.4kN)	18°

** Torque figures based on bolts / setscrews in an unlubricated condition as supplied. For further information on lubricated fasteners see page 76.*

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Ref: LindUKApr24

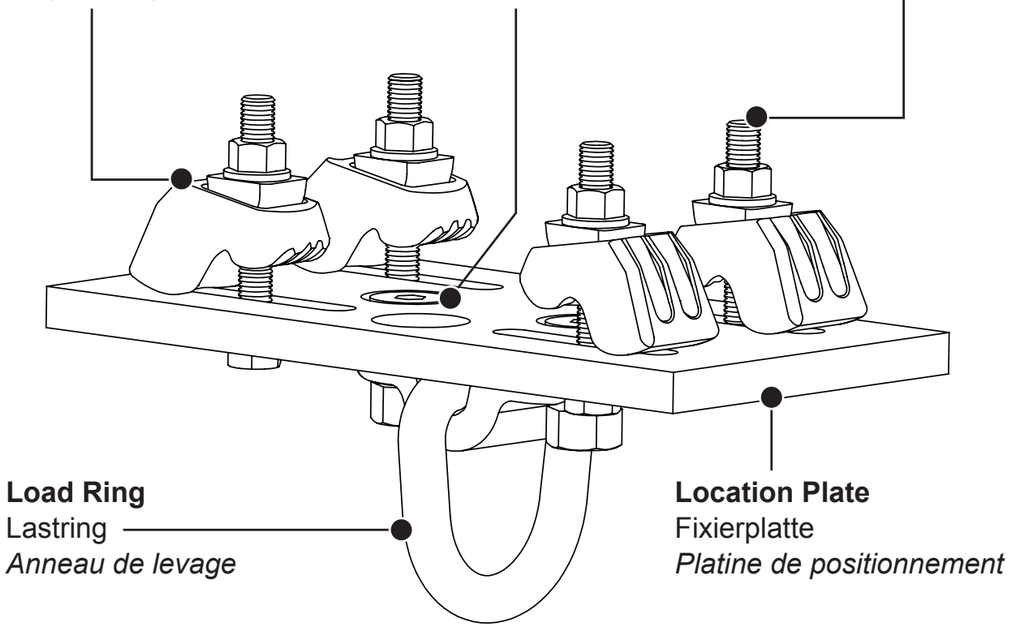
USER GUIDE / ANWENDERLEITFADEN / GUIDE DE L'UTILISATEUR

Type / Typ ALP

The Type ALP (Adjustable Lifting Point) can be used in a variety of industries to support the lifting and rigging of equipment.

Typ ALP (Adjustable Lifting Point, verstellbare Hebeöse) eignet sich für Montage- und Hebeanwendungen in einer Vielzahl von Einsatzbereichen.

Le Type ALP (Adjustable Lifting Point, point de levage réglable) peut être utilisé dans divers secteurs industriels pour des applications de levage et d'accrochage de matériels.



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Type / Typ ALP

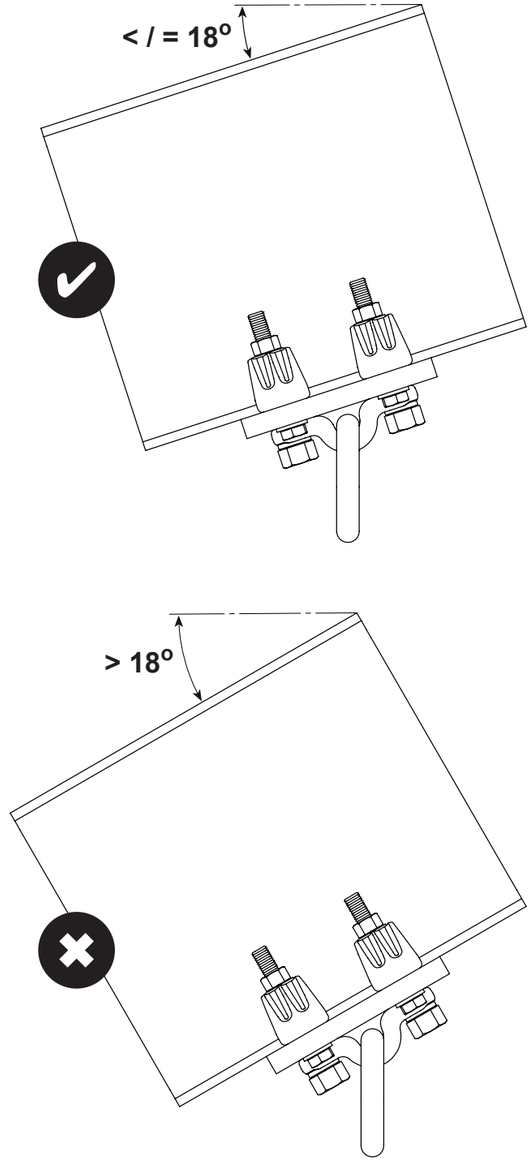
Notes / Hinweise

The maximum lifting load is 3t (29.4kN) but is subject to the capacity of the supporting steelwork.
Die maximale Hublast beträgt 3 t (29,4 kN), ist jedoch abhängig von der Tragfähigkeit der Stahlkonstruktion.
Charge de levage maximum : 3 t (29,4 kN), sous réserve des capacités des structures.

The maximum angle of load is 18° (two diagrams right).
Der maximale Belastungswinkel beträgt 18° (siehe Abbildungen rechts).
Angle maximum de la charge : 18° (cf. deux diagrammes à droite).

The ALP can be used on both parallel and tapered beams (up to 10°).
Typ ALP eignet sich sowohl für Träger mit parallelen als auch mit geneigten Flanschen (bis 10°).
Le Type ALP peut être utilisé sur des poutres à ailes parallèles et à ailes inclinées (jusqu'à 10°).

The ALP can be installed onto a range of flange widths and thicknesses (refer to table overleaf).
Typ ALP eignet sich für unterschiedliche Flanschbreiten und -dicken (siehe umseitige Tabelle).
Le Type ALP peut être installé sur une gamme d'épaisseurs et de largeurs d'ailes (cf. tableau au verso).



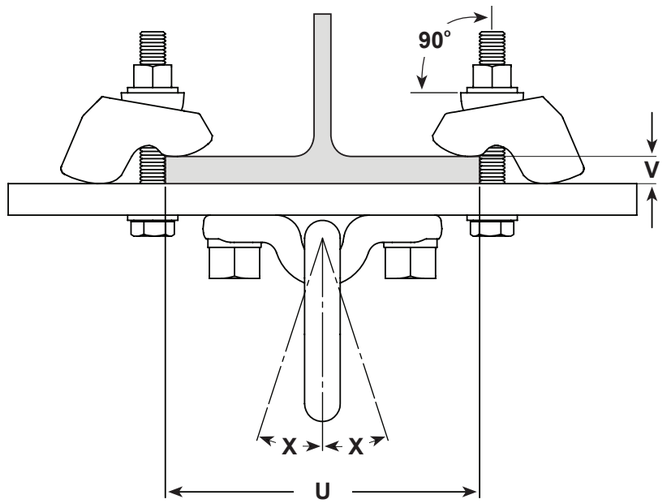
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Type / Typ ALP

Notes / Hinweise

The maximum angle of the load must take into account the angle of an inclined beam.
Beim maximalen Belastungswinkel zählt eine eventuelle Neigung des Trägers mit.
L'angle maximum de la charge doit tenir compte de l'angle de la poutre inclinée.

The safe working loads are subject to the capacity of the supporting steelwork.
Die zulässigen Belastungen sind abhängig von der Tragfähigkeit des Stahltragwerks.
Les charges utiles maximales sont fonction de la capacité des structures supports.



Product Code Artikelnummer *Code Produit*	Torque Figures Anziehmomente *Couple de serrage* Load Ring Countersunk Bolts Lastring Senkkopfschrauben *Boulons fraisés de l'anneau de levage*		Type AAF Set Screws Typ AAF Stellschrauben *Type AAF Vis*		Clamping Range Klemmbereich *Plage de serrage* Flange Thickness Flanschdicke *Épaisseur d'aile*	Beam Width Trägerbreite *Largeur poutrelle*	Safe Working Load (4:1 Factor of Safety) Zulässige Belastung (4:1 Sicherheitsfaktor) *Charges utiles (coefficient de sécurité 4:1)*	Max Angle of Load Max. Belastungswinkel *Angle de charge max.*
	10.9 Bolt Schraube 10.9 *Boulon 10.9*	Torque Anziehmoment *Couple* Nm	8.8 Bolt Schraube 8.8 *Boulon 8.8*	Torque Anziehmoment *Couple* Nm	V mm	U mm		X
ALP3T-1	M16	100	M12	90	5 - 26	70 - 210	3t (29.4kN)	18°
ALP3T-2	M16	100	M12	90	5 - 26	190 - 330	3t (29.4kN)	18°
ALP3T-3	M16	100	M12	90	5 - 26	310 - 450	3t (29.4kN)	18°

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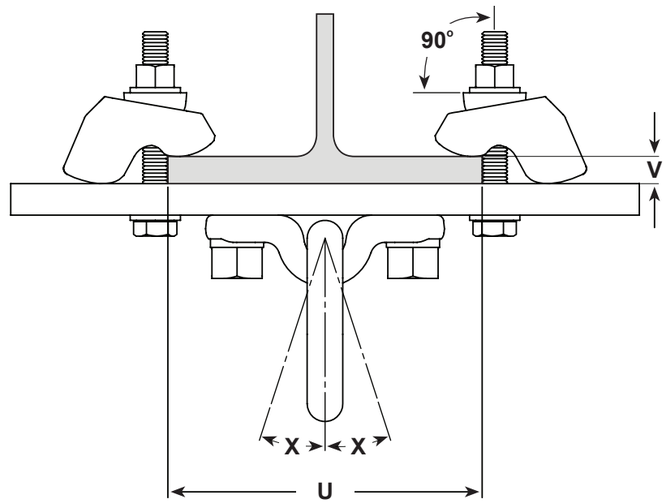
USER GUIDE / ANWENDERLEITFADEN / GUIDE DE L'UTILISATEUR

Type / Typ ALP

Notes / Hinweise

The maximum angle of the load must take into account the angle of an inclined beam.
Beim maximalen Belastungswinkel zählt eine eventuelle Neigung des Trägers mit.
L'angle maximum de la charge doit tenir compte de l'angle de la poutre inclinée.

The safe working loads are subject to the capacity of the supporting steelwork.
Die zulässigen Belastungen sind abhängig von der Tragfähigkeit des Stahltragwerks.
Les charges utiles maximales sont fonction de la capacité des structures supports.



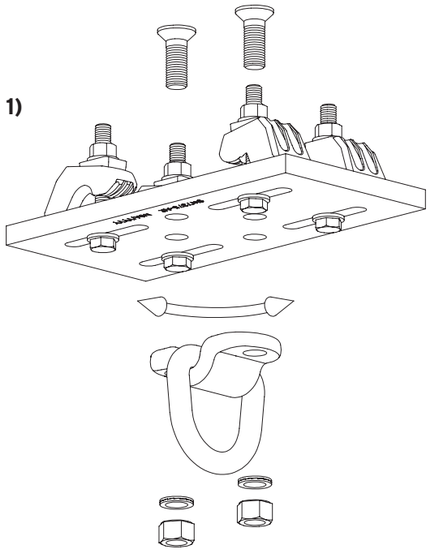
Product Code	Torque Figures Load Ring Countersunk Bolts*		Type AAF Set Screws*		Clamping Range Flange Thickness	Beam Width	Safe Working Load (4:1 Factor of Safety)	Max Angle of Load
	A490 Bolt	Torque ft lb	Grd. 5 / A325 Bolt	Torque ft lb	V	U		X
LALP3T-1	M16 (5/8")	74	M12 (1/2")	66	3/16" - 1"	2 3/4" - 8 1/4"	6600	18°
LALP3T-2	M16 (5/8")	74	M12 (1/2")	66	3/16" - 1"	7 1/2" - 13"	6600	18°
LALP3T-3	M16 (5/8")	74	M12 (1/2")	66	3/16" - 1"	12 3/16" - 17 3/4"	6600	18°

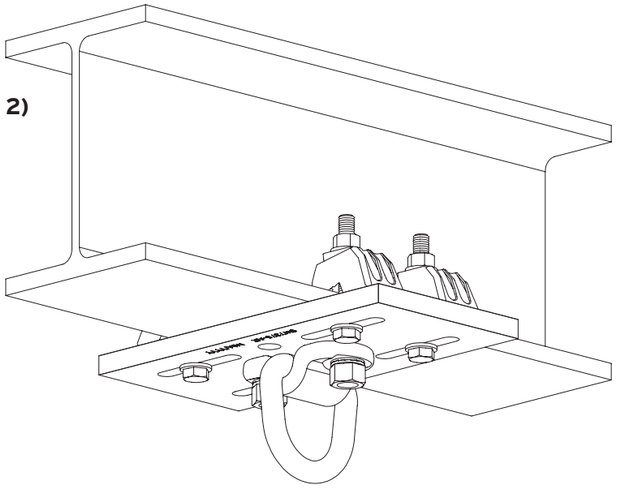
** Metric bolts, nearest imperial / UNC equivalent shown in brackets.*

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Type / Typ ALP





Installation / Montage

1) Fix the load ring in the orientation required with the supplied countersunk setscrews and anti-vibration washers then use a calibrated torque wrench to tighten to 100Nm / 74 ft lb.
2) Offer lifting point assembly up to the beam ensuring the plate is located centrally to the beam, loosely secure the clamps then, when happy with the alignment, use a calibrated torque wrench to tighten to 90Nm / 66 ft lb.

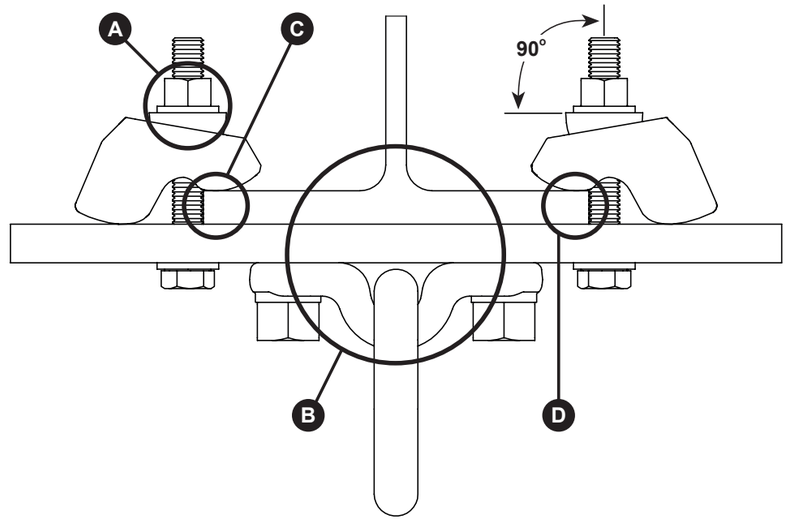
1) Befestigen Sie den Lastring in der gewünschten Ausrichtung mit den mitgelieferten Senkschrauben und Antivibrationsscheiben an der Fixierplatte und ziehen Sie die Schrauben mit einem kalibrierten Drehmomentschlüssel auf 100Nm fest.
2) Platzieren Sie den vormontierten Anschlagpunkt unter dem Träger und richten Sie die Platte mittig zum Träger aus. Ziehen Sie die Schrauben der Klemmen lose an. Wenn Sie mit der Ausrichtung zufrieden sind, ziehen Sie sie mit einem kalibrierten Drehmomentschlüssel auf 90 Nm an.

1) Fixer l'anneau de levage, suivant l'orientation souhaitée, avec les boulons fraisés et les rondelles anti-vibration fournis, puis serrer avec une clé dynamométrique au couple de 100Nm.
2) Positionnez l'ensemble sur la poutre en vous assurant que la platine est bien centrée, serrez légèrement les boulons des crapauds, puis, une fois que vous êtes satisfait de l'alignement, et en utilisant une clé dynamométrique, serrez les boulons au couple de 90Nm.

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Type / Typ ALP



Notes / Hinweise

A. Ensure the top surface of the AAF rocking washer is at 90° to the bolt before it is secured.
B. Location plate should be central to the beam.
C. Each set screw should be close to or in contact with the edge of the beam flange before tightening.
D. The nose of the AAF clamp must be sat on the flange of the beam before final tightening.

The ALP assembly must be regularly inspected for signs of wear or damage, in accordance with the standards / regulations of the country of use. Safe working load values are subject to the capacity of the supporting section.

A. Stellen Sie sicher, dass die Oberseite des AAF-Winkelausgleichs vor dem Festziehen rechtwinklig zur Schraube ist.
B. Die Fixierplatte muss mittig am Träger anliegen.
C. Die Schrauben der Klemmen müssen vor dem Festziehen jeweils nah am Trägerflansch liegen oder diesen berühren.
D. Die Nase der AAF-Klemme muss vor dem endgültigen Festziehen auf dem Trägerflansch sitzen.

Die ALP-Baugruppe muss regelmäßig auf Anzeichen von Verschleiß oder Beschädigung gemäß den Normen / Vorschriften des Verwendungslandes überprüft werden. Die Werte für die zulässigen Belastungen hängen von der tragenden Stahlkonstruktion ab.

A. Avant le serrage, assurez-vous que le dessus de la rondelle à bascule du AAF est perpendiculaire au boulon.
B. La platine de positionnement doit être centrée par rapport à la poutre.
C. Avant le serrage, chaque boulon doit être le plus proche possible, et de préférence en contact avec l'aile de la poutre.
D. Le nez du crapaud AAF doit reposer sur l'aile de la poutre avant le serrage final.

L'ensemble ALP doit être régulièrement inspecté pour tout signe d'usure ou d'altération, conformément aux normes / réglementations du pays où l'assemblage est installé. Les valeurs des charges utiles sont aussi fonction des capacités de la structure support.

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Type / Typ ALP

Inspection after installation / Kontrolle nach der Installation / *Inspection post-installation*

Before each use, a visual inspection should be carried out for signs of wear or damage, examples are (but not limited to): damage to finish coating, corrosion, bent, nicked, worn or elongated components, a visible gap between the location plate and beam. Additional advice for inspecting the Gunnebo LP can be found at the back of this guide.

It is recommended that the visual inspection is recorded. If signs of wear or damage are visible to any part of the Type ALP during the visual inspection then it must not be used and the whole assembly replaced. In service thorough inspections should be carried out by a competent person in line with the site general maintenance schedule and regulatory requirements but should as a minimum be carried out in the first six months after installation and then at regular intervals.

In addition to the visual inspection checks listed above, the tightening torques of the bolts should be checked and re-tightened if necessary. It is recommended that the in service inspection is recorded. If signs of wear or damage are visible to any part of the Type ALP during the in service inspection then it must not be used and the whole assembly replaced.

Vor jedem Gebrauch ist eine Sichtprüfung auf Anzeichen von Verschleiß oder Beschädigung durchzuführen. Beispiele für Mängel (unvollständige Liste): Schäden an der Oberflächenbeschichtung, Korrosion, verbogene, eingekerbte, abgenutzte oder gedehnte Komponenten, ein sichtbarer Spalt zwischen Fixierplatte und Träger. Weitere Inspektionshinweise für den Gunnebo-Anschlagpunkt finden Sie am Ende dieser Anleitung.

Es wird empfohlen, die Sichtprüfung zu protokollieren. Sind bei der Sichtprüfung an irgendeinem Teil des Typ ALP Anzeichen von Verschleiß oder Beschädigung zu erkennen, darf dieser nicht mehr verwendet werden und die gesamte Baugruppe muss ausgetauscht werden. Während des Betriebs sollten gründliche Inspektionen durch kompetentes Personal in Übereinstimmung mit dem allgemeinen Wartungsplan des Standorts und den gesetzlichen Vorschriften durchgeführt werden, mindestens jedoch in den ersten sechs Monaten nach der Montage und danach in regelmäßigen Abständen.

Zusätzlich zu den oben genannten Sichtprüfungen sind die Anziehmomente der Schrauben zu kontrollieren und die Schrauben gegebenenfalls nachzuziehen. Es wird empfohlen, die Inspektion während des Betriebes zu protokollieren. Sind bei der Inspektion an irgendeinem Teil des Typ ALP Anzeichen von Verschleiß oder Beschädigung zu erkennen, darf dieser nicht mehr verwendet werden und die gesamte Baugruppe muss ausgetauscht werden.

Avant chaque utilisation, procéder à une inspection visuelle à la recherche de traces d'usure ou d'altération, y compris (liste non exclusive) : altération du revêtement de finition, corrosion, courbure, entaille, usure ou élongation des composants, espacement visible entre la platine de positionnement et la poutre. Pour plus de conseils relatifs à l'inspection du point de levage Gunnebo, voir au dos de ce guide.

Il est recommandé que les inspections visuelles soient consignées. Si l'inspection visuelle relève des signes d'usure ou d'altération d'une partie quelconque du Type ALP, ne pas l'utiliser et remplacer l'ensemble intégralement. Des inspections complètes en cours d'exploitation doivent être réalisées par une personne compétente, conformément au planning de maintenance générale du site et aux exigences réglementaires, et au minimum dans les six mois suivant l'installation, puis à intervalles réguliers par la suite.

Outre les contrôles et inspections visuelles listés ci-dessus, procéder au contrôle des couples de serrage des boulons et, le cas échéant, les re-serrer. Il est recommandé que les inspections en cours d'exploitation soient consignées. Si l'inspection en cours d'exploitation relève des signes d'usure ou d'altération d'une partie quelconque du Type ALP, ne pas l'utiliser et remplacer l'ensemble intégralement.

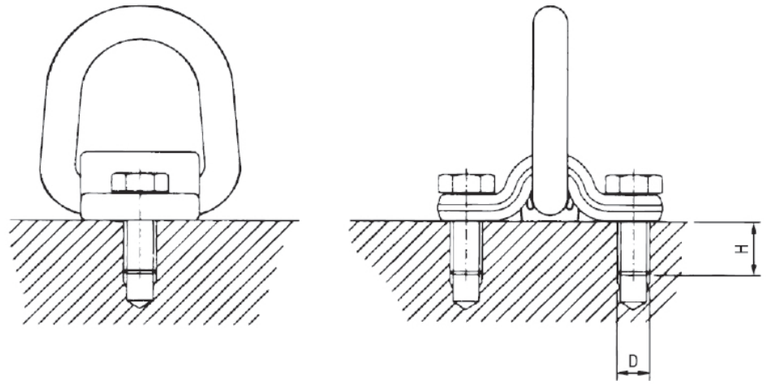
lindapter®
Lindsay House, Brackenbeck Road, Bradford, West Yorkshire, BD7 2NF, England
Tel: +44 (0) 1274 521444 | Fax: +44 (0) 1274 521130 | www.Lindapter.com

Lindapter's Type ALP product includes a Load Ring component (Screwable Lifting Point) that is manufactured by Gunnebo Industries. Information about this component is reproduced below with permission from Gunnebo Industries.

GUNNEBO Industries

USER´S INSTRUCTION

SCREWABLE LIFTING POINT, SLP



Screw dimensions SLP	Recommended tightening torque	The screw effective thread length H
SLP-1T = M 14 (quality 10.9)	70 Nm ± 10%	Steel = Min. 1.5 x D
SLP-3T = M 16 (quality 10.9)	100 Nm ± 10%	Cast iron = Min. 2.0 x D
SLP-5T = M 20 (quality 10.9)	170 Nm ± 10%	Aluminium = Min. 2.5 x D

- Use screws of at least 10.9 quality
- Use screws with sufficient thread length
- The surfaces must be clean and flat
- Check the screws regularly to make sure they are securely tightened
- Check the lifting point regularly to detect deformations
- Renew the link if permanent elongation > 5%
- Renew bent screws

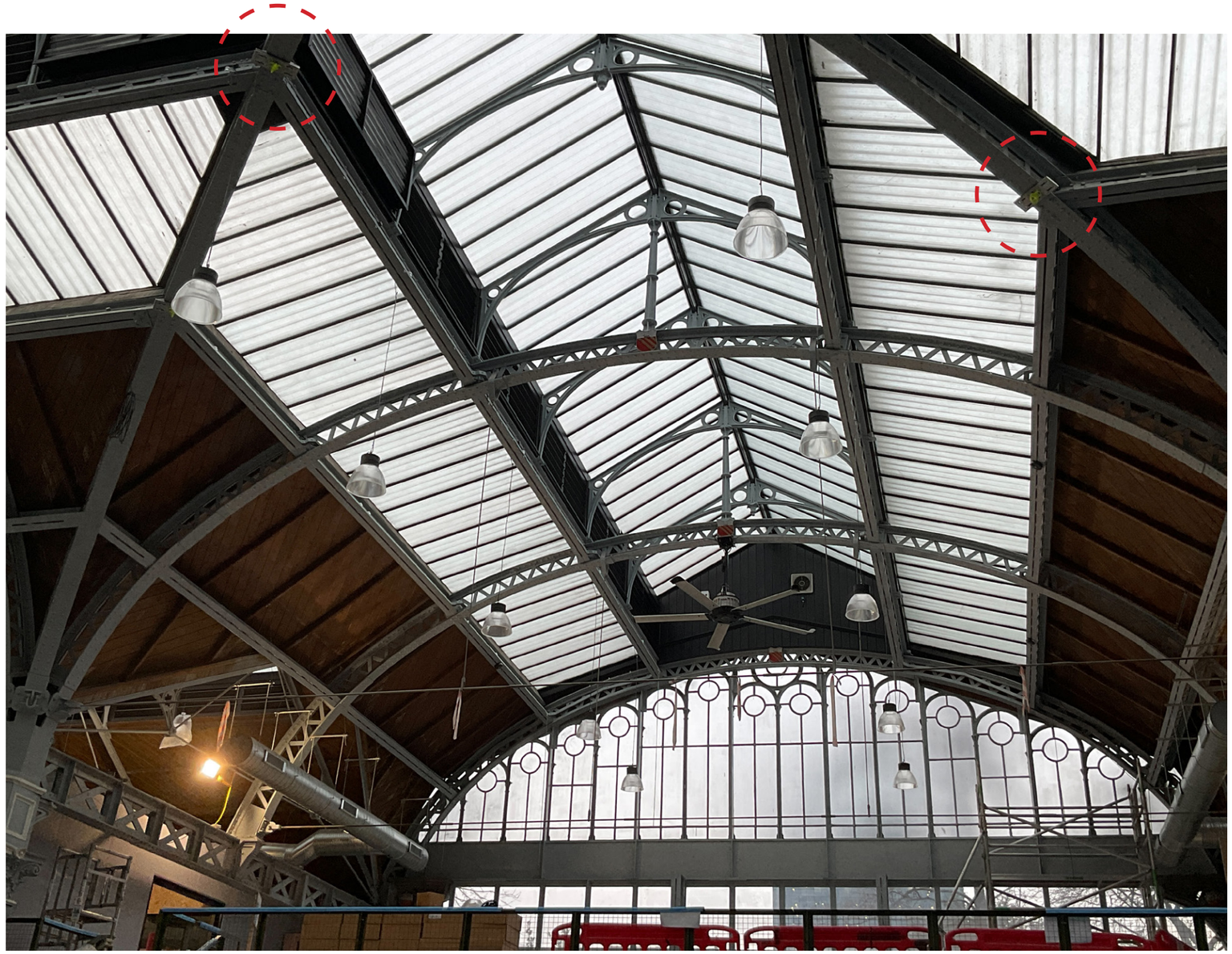
Made in Sweden by:
Gunnebo Industrier AB
Stinavägen 1
352 46 Växjö, Sweden

Phone: +46-470 757500
E-mail: export@gunnebolifting.com
www.gunneboindustries.com

Ref: ALP_NOV22

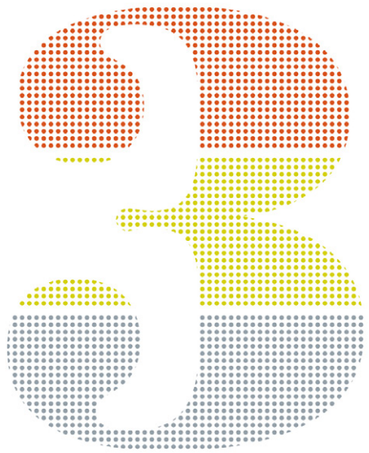
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Genie GS-3232





EXTERNAL LIGHTING
Sections 12-14

This section includes LDL lighting lighting plan for external lighting, lighting control box and lighting specification. It also includes ColourZones lighting controller specification for the external lighting. Finally there are photos of the mock up for the external lighting.

Lower 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 94x 1040mm "KAL" LEDs on the project. Each "KAL" length is fitted with RGBW (4000K) LEDs and Elliptical (45°x16°) Optics. The lights are powered by 8x Control Boxes located near the window features. The control boxes are fitted with a 500W, 24VDC PSUs, 2x 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:
27491 Rev.A
Provisional
09/08/2024

LDL lighting

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

All Lighting Control Box locations are TBC

Part No. **"KAL1040-PS-RGBW40-EL-C-24-1M"**
Linear LED with RGBW (4000K) LEDs, Elliptical Optics and a 1 metre tail.

Control Box 1
7VDC Input
230VAC Input
1 2 3
3x LED Outputs to KAL LEDs

12x KAL LEDs
24VDC, 15A, 360W

12x KAL LEDs (6x Window Features)

Each "KAL" LED unit is 24VDC, 1.25A, 30W max.

3x Feedlines (5-core, 2.5mm² CSA) based on a 20m feedline run

DMX512 signal

Suitable joint box

DMX512 signal from ColourZone Controller to Control Box

Control Box Serial No. ***TBC***
Ref: **"Box 1"**
Part No. **"CB25-500-24-1DMX4-OP3"**
600x400x200mm

500W, 24VDC

500W Switch Mode PSU.
Output Voltage TBC
This is pre-set at the factory.

2x 4-channel DMX512 Interface Modules.

DMX Input/Output Terminals

3x Fused LED outputs

Mains Input has 4A fuse here

230VAC Input

3x Feedlines (5-core, 2.5mm² CSA) based on a 20m feedline run

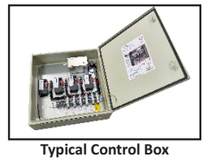
DMX512 Output signal to the next lighting control box

LED lighting controller
Part No. **"COLOURZONE-1/12"**

PSU
12W, 7VDC Switch Mode PSU

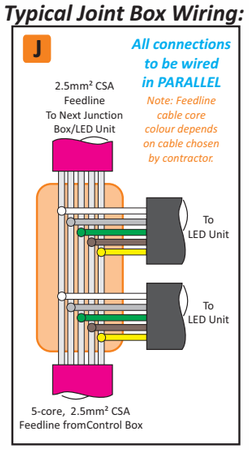
230VAC Input


"KAL" LED Unit


Typical Control Box


ColourZone Controller

Typical Joint Box Wiring:



120R Terminator
120R DMX line terminator - leave this in place if this is the last DMX receiver in the line.

Box 8
230VAC Input
1 2 3
3x LED Outputs to KAL LEDs
10x KAL LEDs (5x Window Features)
DMX512 signal
Box 8
10x KAL LEDs
24VDC, 12.5A, 300W

8x KAL LEDs (4x Window Features)

Box 2
230VAC Input
2x LED Outputs to KAL LEDs
1 metre, 5-core cable pe-wired to each "KAL" LED unit
8x KAL LEDs
24VDC, 10A, 240W

Box 3
12x KAL LEDs
24VDC, 15A, 360W
230VAC Input
1 2 3
3x LED Outputs to KAL LEDs

DMX512 signal

Box 4
14x KAL LEDs
24VDC, 17.5A, 420W
230VAC Input
1 2 3 4
4x LED Outputs to KAL LEDs

Box 5
12x KAL LEDs
24VDC, 15A, 360W
230VAC Input
1 2 3
3x LED Outputs to KAL LEDs

There are 2x KAL LEDs per window

Box 6
14x KAL LEDs
24VDC, 17.5A, 420W
230VAC Input
1 2 3 4
4x LED Outputs to KAL LEDs

Box 7
230VAC Input
1 2 3
3x LED Outputs to KAL LEDs
12x KAL LEDs
24VDC, 15A, 360W
12x KAL LEDs (6x Window Features)

12x KAL LEDs (6x Window Features)
14x KAL LEDs (7x Window Features)
12x KAL LEDs (6x Window Features)
14x KAL LEDs (7x Window Features)

Equipment Summary:

Product Image	Qty	Part No:	Electrical Details		
			Operating Voltage	Max. Current Per Unit	Max. Wattage Per Unit
	94	KAL1040-PS-RGBW40-EL-C-24-1M	24VDC typ.	1.25A	30W
	1	COLOURZONE-1/12	7VDC.	-	-
	8	CB25-500-24-1DMX4-OPx	230VAC	4A	500W

Cable Key:

Image	Function	Type	Supplied By
	DMX512 Data Cable	2-core screened	Installation Contractor
	Feedline	5-core feedline, size 2.5mm² CSA	Installation Contractor
	230VAC Input Cable	L, E, N	Installation Contractor
J	Junction Box	Feedline Junction Box	Installation Contractor
	Luminaire Cable	1 metre cable, 5-cores, 0.34mm² CSA , 4.9mm O.D. njo Ref. W503	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. 27491	
					Batch No:	TBC
					Drawn By:	SI
					Approved By:	MR
A	Drawn	SI	MR	09/08/24	Date:	09/08/2024
Rev.	Change	Drawn	App'd.	Date	Print A3	Page 1 of 1

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Lower Campfield - RGBW "KAL" LED Linear Lights, 1 Zone of Control - Provisional Control Box Overview

The "CB25" control box is a 600x400x200mm, IP66 steel enclosure, powder-coated light grey (RAL7032). They are fitted with high efficiency 500W, low voltage 24VDC switch mode power supply units, DMX512 interface modules, DIN rail mounted output terminals and fuseholders, a set of DMX Input/Output terminals and LEN 230VAC Mains Input. All control boxes are supplied with a set of 4 wall mounting brackets, a door key, non-drilled gland plate and spare fuses. Every control box is fully labelled internally to aid in installation and has an annotated photograph ("Information Sheet") fitted to the inside of the door to help identify each part of the control box and its function. The Lower Campfield project uses 8x "CB25" boxes, each to power and control up to 14x RGBW KAL LED lights (7x window features).

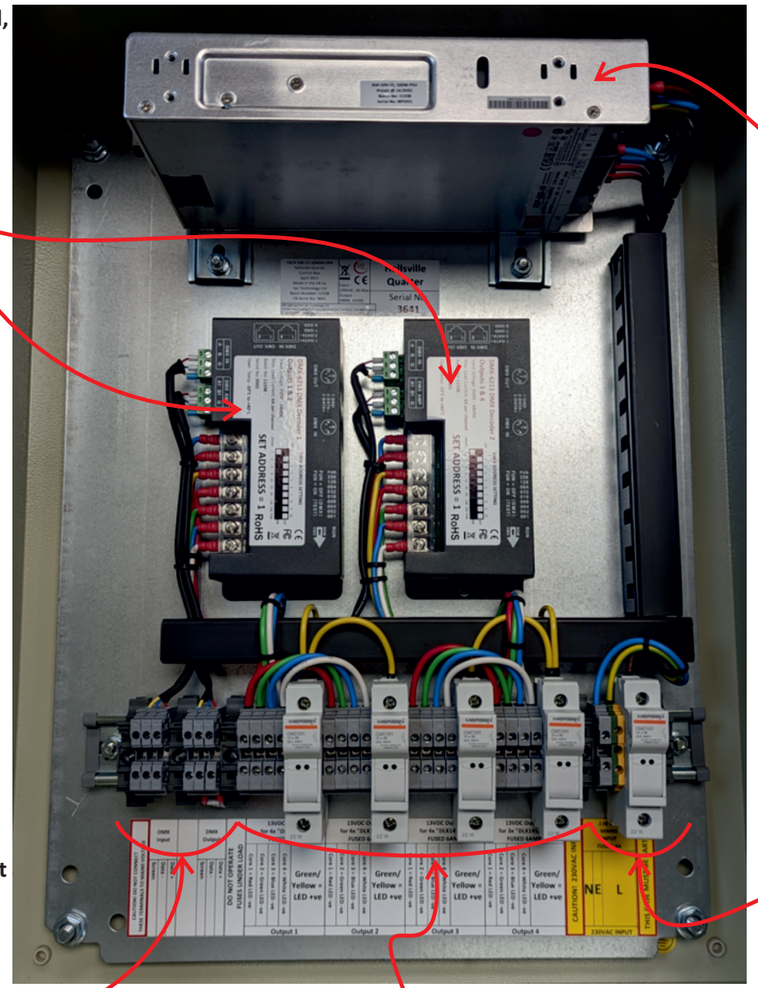
Drawing No./Status:
27492 Rev.A
Provisional
09/08/2024

LDL lighting

Control Box Part No. **"CB25-500-24-1DMX4-OP4"**
600x400x200mm

2x 4-Channel, Constant Voltage DMX512 Decoders.

500W, 24VDC PSU
Output Voltage TBC
This is pre-set at the factory.



DMX512 Input/Output Terminals

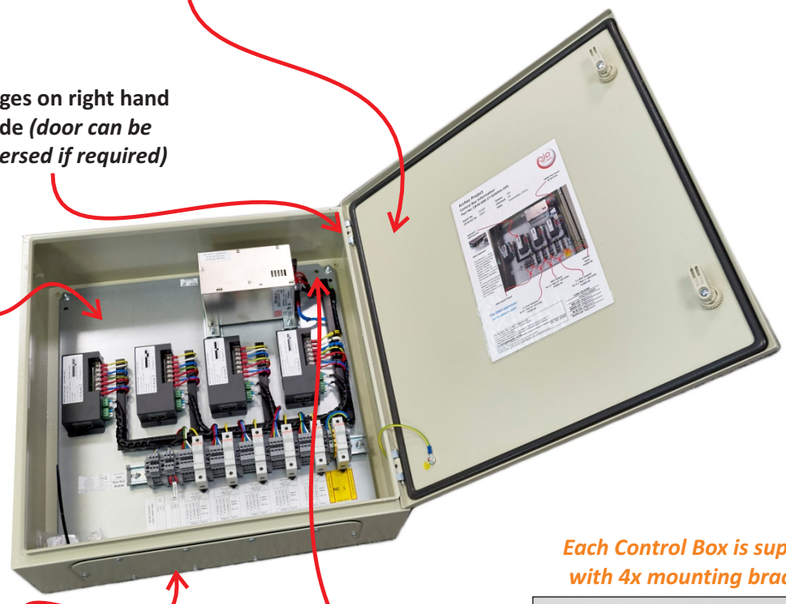
230VAC Input Fused 4A

4x 24VDC Constant Voltage RGBW LED Outputs FUSED 6A
(Up to 4x "KAL" LEDs per Output)

i, The control box is fully wired and tested, ready for the installation contractor to connect Mains and DMX512 cables and LED output feedlines.
ii, Care should be taken during installation to prevent impact/damage to the DMX interface modules.
iii, Ensure no wire croppings are allowed to enter the PSU casing or DMX modules.
iv, Finally remove any wire croppings and swarf prior to energising the box.
v, The control box requires a regular inspection to check for moisture and internal dust accumulation, which should be removed.
Note: If this box is at the end of the DMX line a 120R resistor must be used across the DMX output, Data + and Data -

The "CB25" Control Box is 600x400x200mm, IP66, RAL7032, total weight approx. 15kg.

Hinges on right hand side *(door can be reversed if required)*



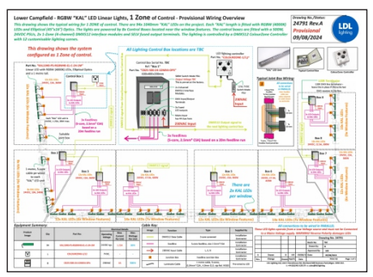
Internal contents of box for representative purposes only

Gland plate supplied undrilled.

4 x Ø8.5mm holes (one each corner), for mounting directly to wall or for brackets.

Each Control Box is supplied with 4x mounting brackets





Please see drg. no. 27492 for the previsional wiring layout

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. 27492	
					Batch No:	TBC
					Drawn By:	SI
					Approved By:	MR
A	Drawn	SI	MR	09/08/24	Date:	09/08/2024
Rev.	Change	Drawn	App'd.	Date	Print A3	Page 1 of 1

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Lower Campfield - RGBW “KAL” LED Sample - August 2024

This sample set comprises 1x "KAL540" RGBW (3000K) LED, 15W (30W per metre), IP40 linear LED fitting, 24VDC power supply and a colour change controller.
The production "KAL" LEDs will be 1040mm in length, fitted with RGBW (4000K) LEDs and will be sealed to IP65.

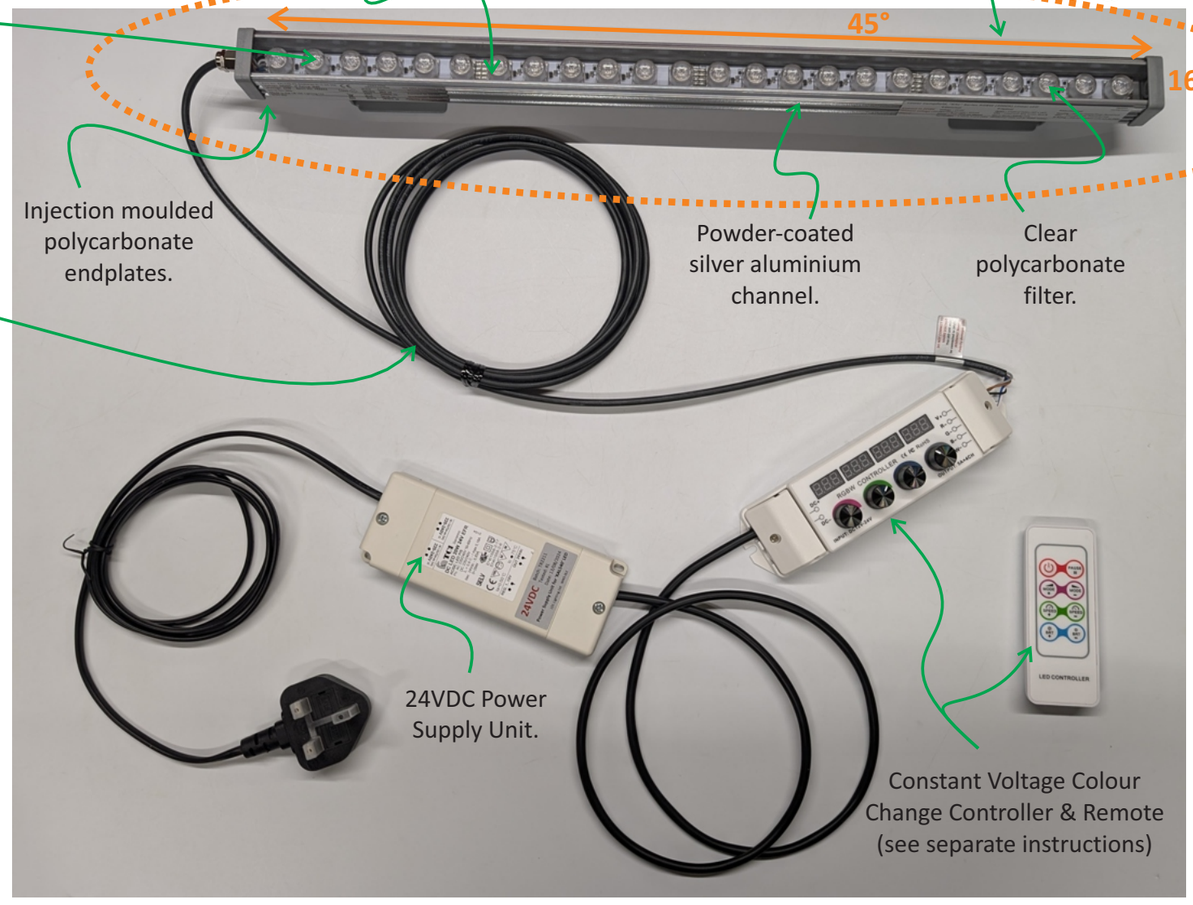
Drawing No./Status:
27494 Rev.A
Provisional
13/08/2024

Sample LED Part No. “KAL540-PS-RGBW30-EL-C-24-3M”

This sample is IP40.
Production units will be IP65 with an internal silicone fill.

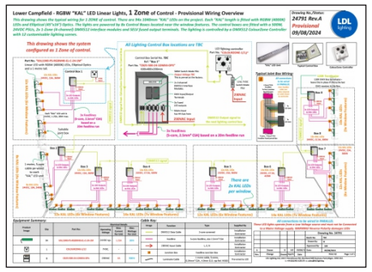
Supplied with adjustable mounting brackets

Fitted with RGBW (3000K) LEDs with elliptical output (45°x16°) wall washing optics,
Production units will be fitted with RGBW (4000K) LEDs

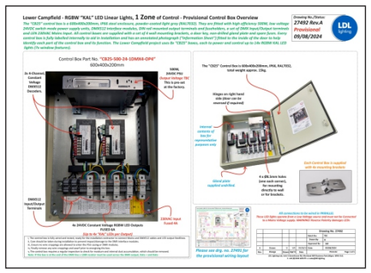


KAL LED Core Colours

Core Identification	Function
Black	24VDC LED +ve
Brown	Red LED -ve
Grey	Green LED -ve
Blue	Blue LED -ve
White	White LED -ve



Please see drg. no. 27491 for the provisional wiring layout



Please see drg. no. 27492 for the provisional Contol Box overview

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

Electrical Details:
Voltage = 24VDC
Current = 1.25A Max per metre.
Total power = 30W Max per metre.
Above data is for P1041.PCB.
Termination = 5-core PUR, 0.34mm² CSA, O.D. 405mm *(ref: W509)*.

Optical Details:
This sample uses 48x Integrated RGBW LEDs per metre

Colour	nm/CCT	Output Per Metre
Red	620nm	222lm/m
Green	520nm	310lm/m
Blue	455nm	67lm/m
White	3000K	270lm/m
White	4000K	303lm/m

Optic = Elliptical (45°x16°)

Mechanical Details:
Housing = Powder-coated aluminium
Filter = Silk Satin polycarbonate
End Plates = Injection moulded polycarbonate
Mounting Brackets = Stainless steel
IP Rating = IP40 *(production units will be IP65)*
Product Weight = 0.9kg per metre

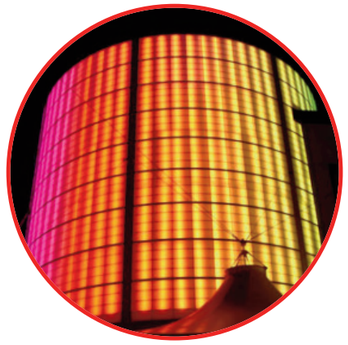
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ColourZone

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



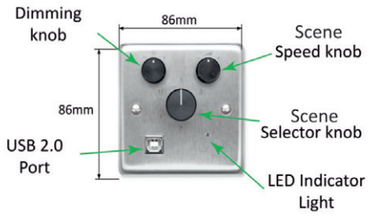
Description

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.

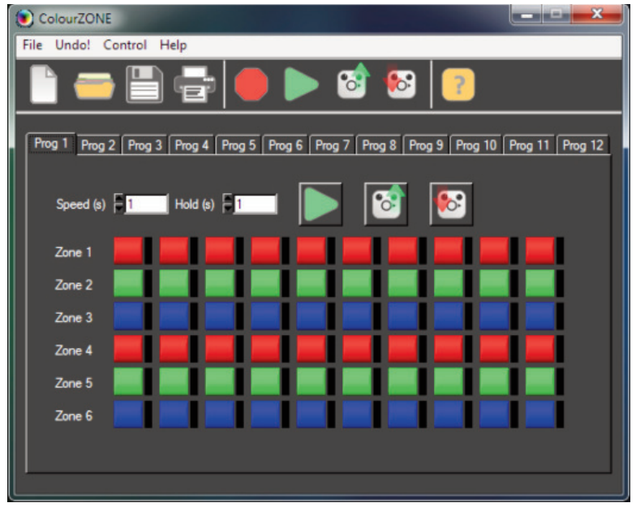
USB Port:
USB 2.0 port allows connection to a PC via a USB cable. This allows the user to customise and create scenes within the ColourZone software. For more information see ColourZone Programming Guide.

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)



- USB Lead



- 7VDC, 12W, Power Supply

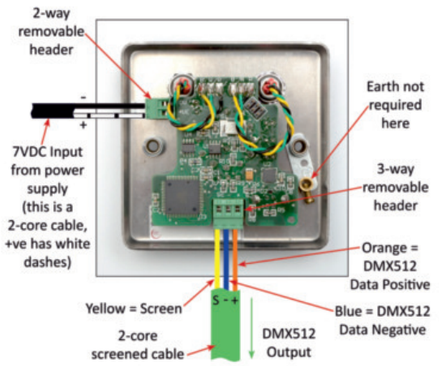


- 2 metre Figure 8 power lead



- ColourZone Programming Software CD

Wiring - Internal Rear View of Controller




Let's get
SPICY
McSpicy


SCIENCE+
INDUSTRY
MUSEUM




SCIENCE+
INDUSTRY
MUSEUM