

DO NOT SCALE THIS DRAWING.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

- CONSTRUCTION**
1. WORKING AT HEIGHT
 2. LIFTING HEAVY EQUIPMENT
 3. WORKING ADJACENT TO POTENTIALLY LIVE SERVICES
 4. HANDLING CHEMICAL PRODUCTS
 5. WORKING IN CONFINED SPACES
 6. PRESENCE OF ASBESTOS

- MAINTENANCE/CLEANING/OPERATION**
1. HANDLING CHEMICAL PRODUCTS
 2. WORKING AT HEIGHT
 3. WORKING ADJACENT TO POTENTIALLY LIVE SERVICES

DECOMMISSIONING/DEMOLITION

1. PRESENCE OF LIVE SERVICES
2. PRESENCE OF ASBESTOS
3. WORKING AT HEIGHT
4. LIFTING HEAVY EQUIPMENT
5. PRESENCE OF FLOOR OPENINGS
6. ALWAYS SAFELY ISOLATE BEFORE COMMENCING ANY WORKS

Notes

LIGHTING NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES, DRAWINGS, SCHEDULES AND SPECIFICATIONS, LEGENDS AND STANDARD DETAILS.
2. THIS DRAWING IS COPYRIGHT AND SHALL NOT BE REPRODUCED WITHOUT PERMISSION.
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9. FINAL ACCESS AND SETTING OUT OF SERVICES SHALL BE AGREED BETWEEN THE ARCHITECT AND THE CONTRACTOR.
10. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.
11. WHERE ELECTRICAL SERVICES PASS THROUGH FIRE COMPARTMENTATION CEILING VOIDS, FLOOR VOIDS AND STRUCTURAL WALLS THE CONTRACTOR SHALL SLEEVE/SEAL THE OPENING WITH AN ACOUSTIC AND FIRE SEALANT APPROVED BY THE ARCHITECT.
12. THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DRAWINGS FOR DETAILS OF FIRE COMPARTMENTATION.
13. FOR THE SPECIFICATION OF ALL LUMINAIRES PLEASE REFER TO THE LUMINAIRE SCHEDULE.
14. THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS AND ROOM ELEVATIONS FOR THE EXACT LOCATION OF ALL SERVICES.
15. DRAWING HAS BEEN PRODUCED FROM INCOMPLETE RECORD INFORMATION AND VISUAL SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VALIDATING ACCURACY PRIOR TO WORKS.
16. CONTRACTOR TO PROVIDE SCHEDULE OF PROPOSED SERVICES ISOLATIONS PRIOR TO WORK COMMENCING.
17. DRAWINGS ARE INDICATIVE ONLY AND ARE SHOWN FOR THE DESIGN INTENT AND THE DESIGN & BUILD CONTRACTOR'S PRICING PURPOSE. THE CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE DESIGN DURING HIS DESIGN PHASE.

P01	TENDER	11/04/2017	LH
Rev	Description	Date	Approved

TENDER

Status/Suitability of Drawing

**BUROHAPPOLD
ENGINEERING**

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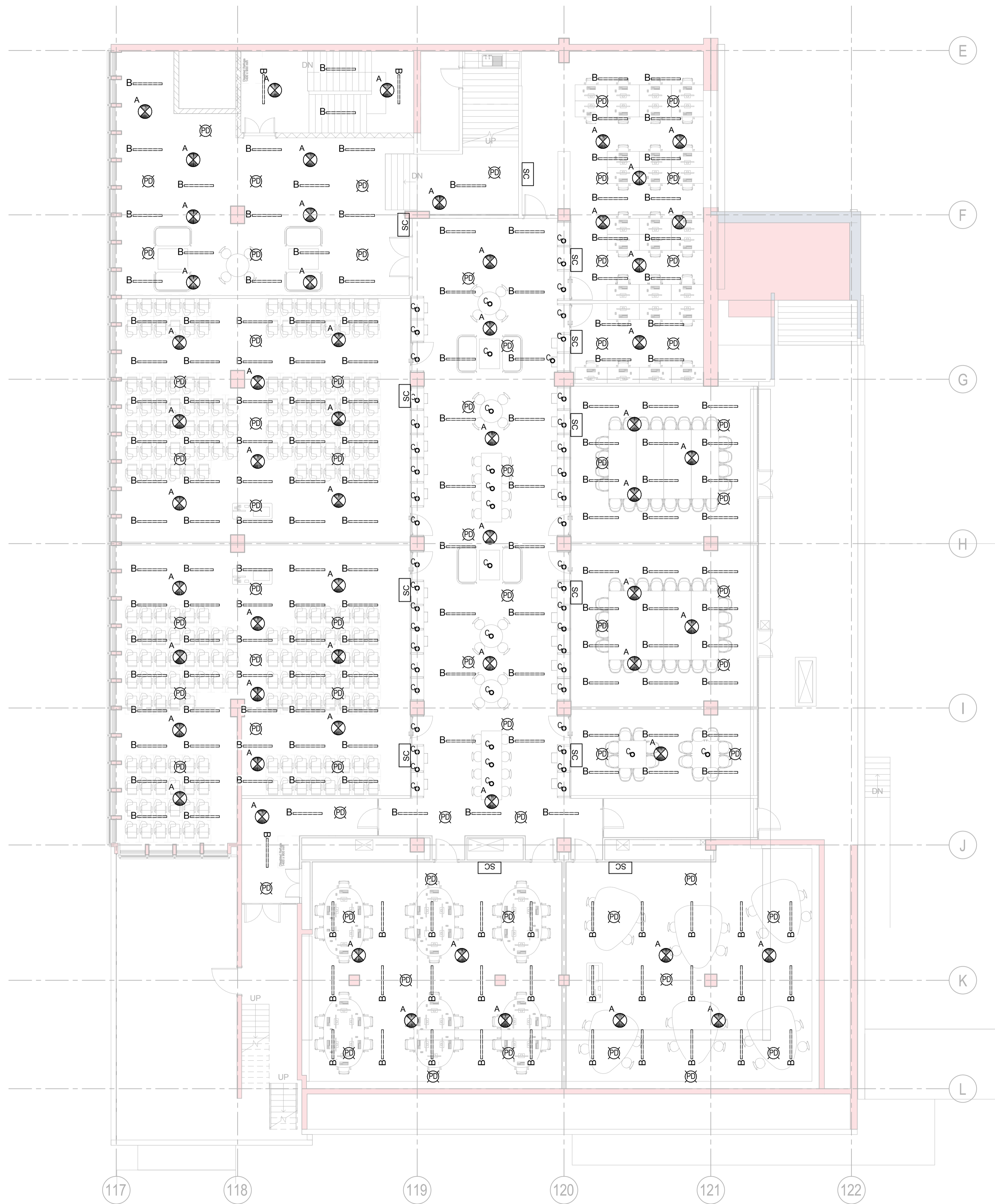
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 Web: www.burohappold.com

Architect: *HawkinsBrown*
 Project: **UCL Institute of Education**
 Dwg Title: **Electrical Services
 Lighting Layout
 Level 3 Wing A**

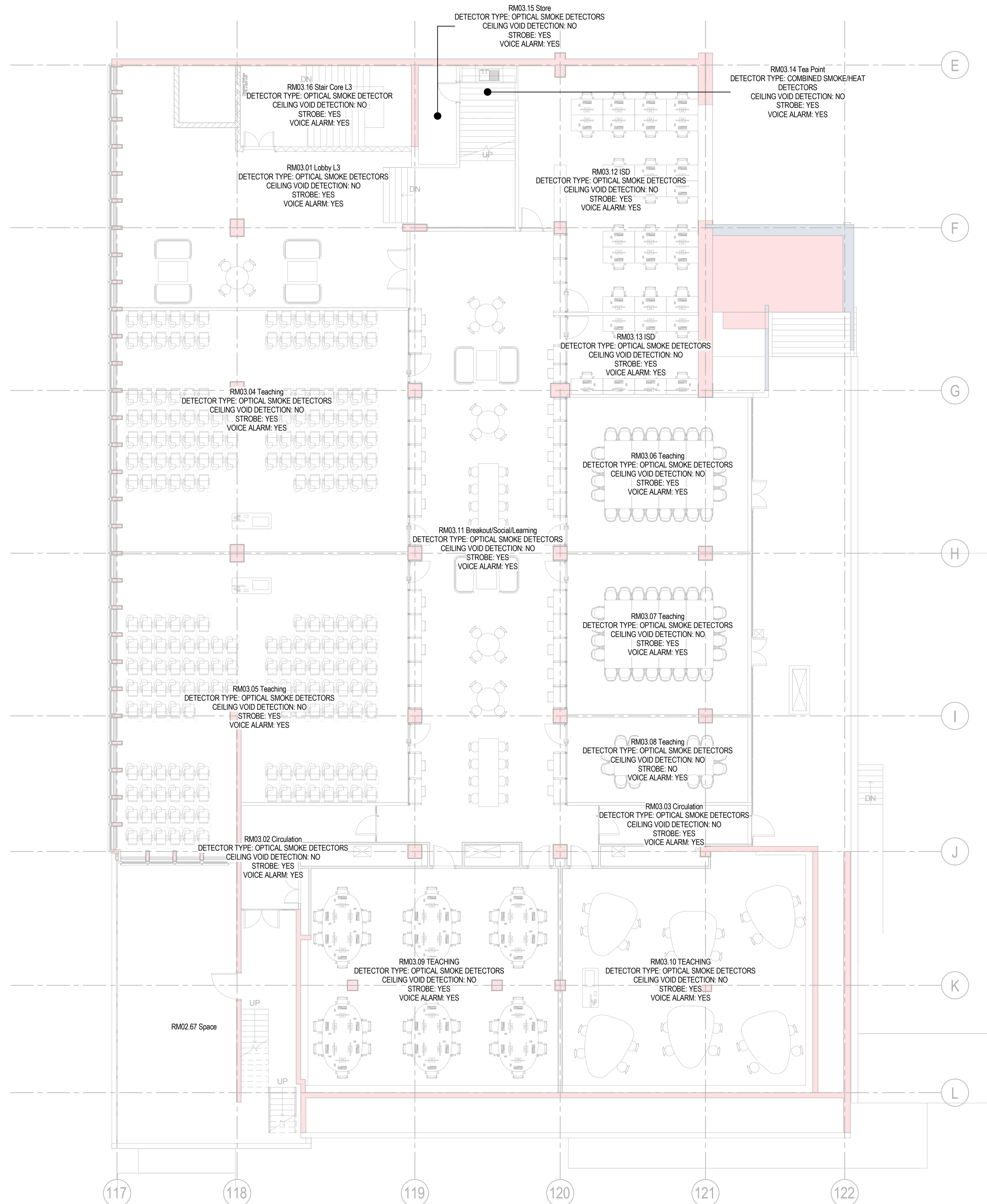
Job No: **035833**
 Scale: **1 : 100**

Drawing No: **20BW-BHE-WA-03-DR-E-XX-2000**

Revision: **P01**



1 Electrical Services Lighting Layout - Level 3 Wing A



1 Electrical Services Fire Alarm Layout - Level 3 Wing A

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- MAINTENANCE/LEANING/OPERATION**
- HANDLING CHEMICAL PRODUCTS
 - WORKING AT HEIGHT
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- PRESENCE OF LIVE SERVICES
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Notes

FIRE ALARM NOTES

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- THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S DRAWINGS FOR DETAILS OF FIRE COMPARTMENTATION.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS AND ROOM ELEVATIONS FOR THE EXACT LOCATION OF ALL SERVICES.
- THE MAXIMUM NUMBER OF FIRE DEVICES PER LOOP SHALL NOT EXCEED THE SELECTED MANUFACTURER'S MAXIMUM ALLOWABLE POWER/LOOP AVAILABLE.
- NO LOOP SHALL EXCEED THE MAXIMUM PERMITTED VOLTAGE DROP AS SPECIFIED BY THE SELECTED MANUFACTURER.
- THE DEVICES INDICATED ON THE FIRE ALARM SCHEMATIC ARE INDICATIVE ONLY. THE CONTRACTOR SHALL SHOW ACTUAL DEVICES PER LOOP ON HIS WORKING DRAWINGS.
- DRAWING HAS BEEN PRODUCED FROM INCOMPLETE RECORD INFORMATION AND VISUAL SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VALIDATING ACCURACY PRIOR TO WORKS.
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Rev	Description	Date	Approved

TENDER

Statutory/Validity of Drawing

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Architect: *HawkinsBrown*
Project: **UCL Institute of Education**
Dwg Title: **Electrical Services
Fire Alarm Layout
Level 3 Wing A**

Job No: **035833** Scale: **A1**
1 : 100

Drawing No: **20BW-BHE-WA-03-DR-E-XX-3000** Revision: **P01**

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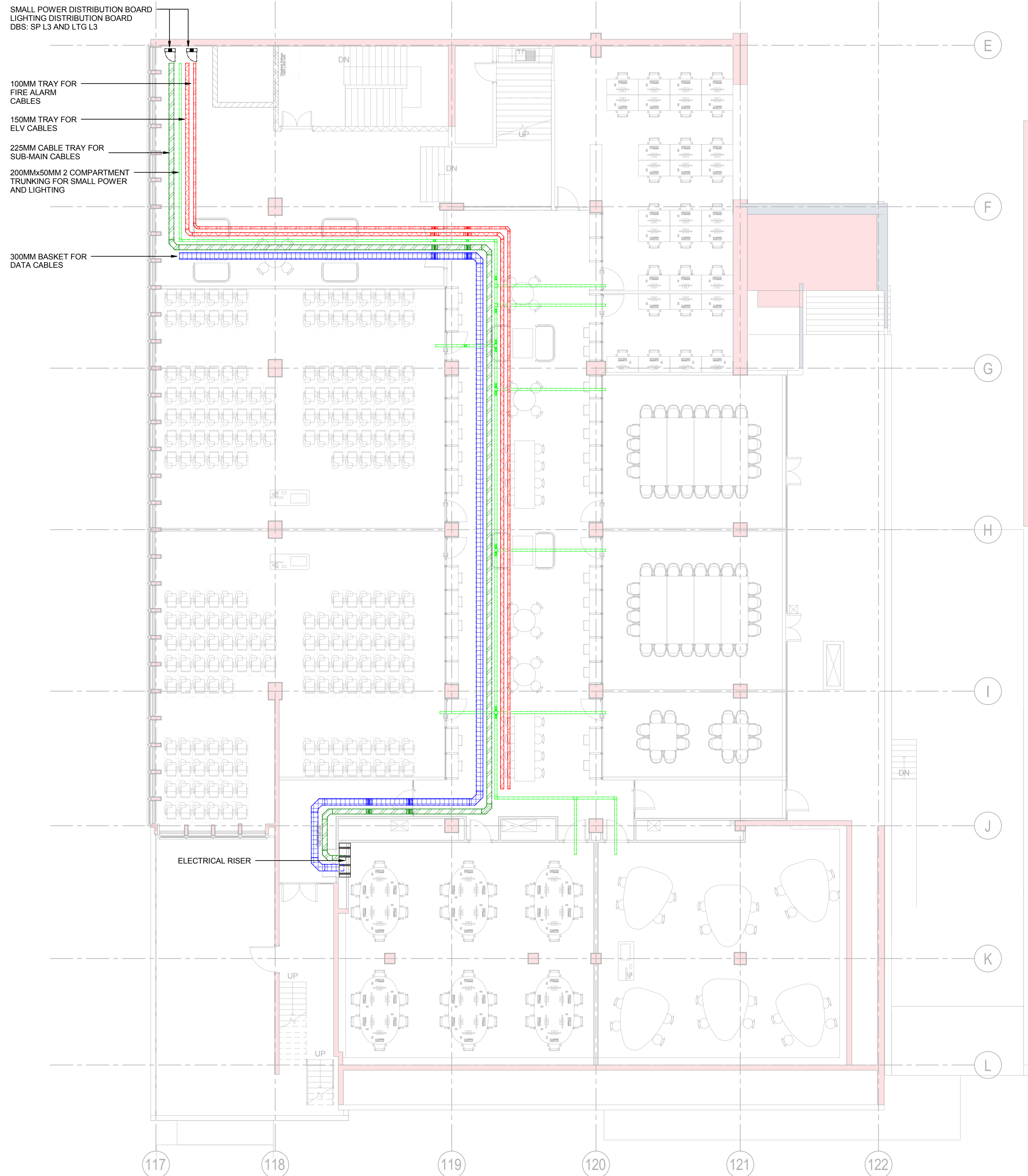
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Architect **HawkinsBrown**
 Project **UCL Institute of Education**
 Dwg Title **Electrical Services
 Containment Layout
 Level 3 Wing A**

Job No. **035833**
 Scale @ A1 **1 : 100**

Drawing No. **20BW-BHE-WA-03-DR-E-XX-4000**

Revision **P01**



1 Electrical Services Containment Layout - Level 3 Wing A

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MAINTENANCE/CLEANING/OPERATION

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Architect: *HawkinsBrown*
Project: **UCL Institute of Education**
Dwg Title: **Electrical Services Symbols Legend**

Job No. 035833	Scale@A1 1 : 1
Drawing No. 20BW-BHE-WA-XX-DR-E-XX-5000	Revision P01

SWITCHES/LIGHTING

	STANDARD SWITCH (g = NO OF GANGS)
	2 WAY SWITCH
	INTERMEDIATE SWITCH
	DIMMER SWITCH
	ILLUMINATED SWITCH
	TIME DELAY SWITCH
	KEY SWITCH
	PULLCORD SWITCH
	PRESENCE DETECTOR
	PHOTO ELECTRIC CELL
	ABSENCE DETECTOR
	LIGHTING CONTROL MODULE
	AREA CONTROL MODULE
	SCENE SETTING CONTROL

SOCKETS

	UNSWITCHED SOCKET OUTLET (g = NO OF GANGS)
	SWITCHED SOCKET OUTLET (g = NO OF GANGS)
	UNSWITCHED INDUSTRIAL BS EN 60309 SOCKET OUTLET (RATING ADJACENT)
	SWITCHED INDUSTRIAL BS EN 60309 SOCKET OUTLET (RATING ADJACENT)
	SHAVER SOCKET
	UNSWITCHED FUSED SPUR OUTLET
	SWITCHED FUSED SPUR OUTLET
	SWITCHED SOCKET OUTLET - ESSENTIAL
	SWITCHED SOCKET OUTLET - CLEAN
	SWITCHED 240V-110V SOCKET OUTLET
	DOUBLE POLE SWITCH (RATING ADJACENT)
	FLOOR BOX
	FLOOR GROMMET

EXIT SIGNS

	CEILING MOUNTED EMERGENCY EXIT SIGN (ARROW DENOTES DIRECTION)
	WALL MOUNTED EMERGENCY EXIT SIGN (ARROW DENOTES DIRECTION)

AV OUTLETS

	TV OUTLET
	SATELLITE/CABLE TV OUTLET
	FM/TV/SAT TRIPLEX OUTLET
	FM/TV/SAT1/SAT2 QUADPLEX OUTLET

COMMUNICATION

	TELEPHONE POINT (p = NUMBER OF POINTS)
	DATA POINT (p = NUMBER OF POINTS)
	COMBINED TELEPHONE & DATA POINT (p = NUMBER OF POINTS)
	WIRELESS ACCESS POINT
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	INTERCOM STATION COMMUNICATION
	MAIN IT COMMS RACK
	VOLUME CONTROL
	CLOCK/TIMMER
	AMPLIFIER
	SATELLITE DISH
	CEILING MOUNTED PROJECTOR
	WALL MOUNTED PROJECTOR
	PUBLIC ADDRESS RACK (VA DENOTES VOICE ALARM)

ISOLATORS

	SP&N ISOLATOR
	TP&N ISOLATOR
	FAN ISOLATOR
	SP&N FUSED SWITCH
	TP&N FUSED SWITCH
	CHANGEOVER SWITCH
	BUSBAR TAP OFF POINT
	CONTACTOR

SCHEMATIC SYMBOLS

	MAIN ISOLATOR
	MCB
	ACB OR MCCB
	WITHDRAWABLE ACB OR MCCB
	TRANSFORMER
	GENERATOR
	EARTH BOND
	UTILITY METER
	CHECK METER
	FRAME SIZE SETTING
	NO. OF POLES
	DEVICE TYPE
	SHORT-CIRCUIT OVER-CURRENT
	EARTH FAULT
	RESTRICTED EARTH FAULT
	NON-AUTOMATIC

ABBREVIATIONS

WP	WEATHERPROOF
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ELECTRICAL PANELS/EQUIPMENT

	SUB-MAIN DISTRIBUTION BOARD
	SP&N FINAL DISTRIBUTION BOARD
	TP&N FINAL DISTRIBUTION BOARD
	MAIN LV SWITCH PANEL
	MOTOR CONTROL PANEL
	SECURITY ALARM PANEL
	BMS CONTROL PANEL
	HAND DRYER

BUTTONS

	MOMENTARY PUSH BUTTON
	2 WAY MOMENTARY PUSH BUTTON
	TIME DELAY BUTTON
	ILLUMINATED BUTTON
	RESET BUTTON
	ELECTRIC PUSH BUTTON

CONTAINMENT

	LADDER
	TRAY
	BASKET
	BUSBAR
	TRUNKING

INCLUSIVE DESIGN

	DISABLED ALARM CONTROL/INDICATOR PANEL
	DISABLED ALARM REPEAT PANEL
	DISABLED REFUGE ALARM PANEL
	DISABLED REFUGE INTERCOM UNIT
	DISABLED ALARM PULLCORD SWITCH
	RESET UNIT
	OVERDOOR AUDIO/VISUAL ALARM INDICATOR

FIRE SYSTEM

	FIRE ALARM PANEL
	FIRE ALARM REPEAT PANEL
	ASPIRATOR SAMPLING DETECTION SYSTEM
	BREAK GLASS UNIT
	HEAT DETECTOR FIXED TEMPERATURE
	HEAT DETECTOR RATE OF RISE
	CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR
	SMOKE DETECTOR WITHIN SMOKE CEILING VOID
	COMBINED SMOKE & HEAT DETECTOR
	COMBINED SMOKE DETECTOR & SOUNDER
	COMBINED HEAT DETECTOR & SOUNDER
	COMBINED CARBON MONOXIDE DETECTOR & SOUNDER
	COMBINED SMOKE DETECTOR SOUNDER & BEACON
	COMBINED HEAT DETECTOR SOUNDER & BEACON
	COMBINED CARBON MONOXIDE DETECTOR SOUNDER & BEACON
	INTERFACE MODULE
	WALL MOUNTED BELL
	CEILING MOUNTED BELL
	WALL MOUNTED FIRE ALARM SOUNDER
	CEILING MOUNTED FIRE ALARM SOUNDER
	WALL MOUNTED FIRE ALARM BEACON
	CEILING MOUNTED FIRE ALARM BEACON
	WALL MOUNTED FIRE ALARM SOUNDER & BEACON
	CEILING MOUNTED FIRE ALARM SOUNDER & BEACON
	REMOTE LED INDICATOR
	FIRE TELEPHONE CALL POINT
	BEAM SMOKE DETECTOR RECEIVER
	BEAM SMOKE DETECTOR TRANSMITTER
	DOOR HOLD OPEN

SECURITY

	CCTV DOME STATIC CAMERA (C = CEILING MOUNTED, W = WALL MOUNTED)
	CCTV DOME PTZ CAMERA
	CCTV STATIC CAMERA
	CCTV STATIC PTZ CAMERA
	CCTV DOME WITH INFRARED CAMERA
	CCTV DOME PTZ WITH INFRARED CAMERA
	CCTV WITH INFRARED CAMERA
	CCTV PTZ WITH INFRARED CAMERA
	360° CAMERA
	INTERNAL PIR DETECTOR (C = CEILING MOUNTED, W = WALL MOUNTED)
	INTERNAL DUAL TECHNOLOGY PIR DETECTOR
	INTERNAL LONG RANGE PIR DETECTOR
	INTERNAL LASER SCANNING PIR DETECTOR
	CARD READER
	REQUEST TO EXIT
	MAGNETIC DOOR UNIT
	DOOR CONTROLLER
	INTERCOM CALL POINT
	INTERCOM RECEIVE POINT
	ALARM KEYPAD
	PANIC ALARM BUTTON
	CEILING MOUNTED INTERNAL SECURITY SOUNDER
	CEILING MOUNTED EXTERNAL SECURITY SOUNDER
	WALL MOUNTED INTERNAL SECURITY SOUNDER
	WALL MOUNTED EXTERNAL SECURITY SOUNDER