

NOTES

1. THE INFORMATION INDICATED ON THIS DRAWING DENOTES THE MINIMUM DETAILS ONLY (DUE TO THE GRADE II LISTING & REFURBISHMENT NATURE OF THE PROJECT WITH LIMITED INFORMATION AVAILABLE). A FULL INTRUSIVE SURVEY OF THE STATION BUILDING, IS RECOMMENDED, BY THE WORKS CONTRACT AWARDED CONTRACTOR TO ESTABLISH THE FULL EXTENT OF ENABLING WORKS.

LEGEND

- STATION MASTER BUILDING (NOT PART OF SCOPE WORKS)
- 1830 STATION BUILDING OUTLINE (SCOPE OF WORKS AREA(S))

SCOPE OF WORKS AREAS

EXISTING CHIMNEYS (CURRENTLY USED AS SERVICES RISERS. RISERS HAVE EXISTING ACCESS HATCHES FOR ACCESS). RISERS TO BE REUSED WHERE APPLICABLE (& SUBJECT TO ASBESTOS SURVEY).

EXISTING MUSEUM AREAS:

TYPICAL WORKS:

- ELECTRICAL INSTALLATION CONDITION REPORT (EICR) TO BE CARRIED OUT WITH AGREED ELECTRICAL INSTALLATION REPAIRS & UPGRADES CARRIED OUT.
- FLOOR BOX SMALL POWER INSTALLATION TO BE SAFELY ISOLATED, DECOMMISSIONED & STRIPPED OUT
- EXISTING TRACK LIGHTING TO BE RETAINED, CLEANED & SERVICED (BASED ON EICR). ALL NON LED LAMPS TO BE REPLACED WITH SUITABLE LED REPLACEMENT LAMPS.
- EXISTING LED BASED SELF CONTAINED (WITH BATTERY BACK UP) EMERGENCY LIGHTING & ILLUMINATED EXIT SIGNAGE TO BE RETAINED, CLEANED & SERVICED. NON LED BASED EMERGENCY LUMINAIRES & ILLUMINATED EXIT SIGNAGE TO BE REPLACED WITH LED SELF CONTAINED FITTINGS (FED FROM LOCAL LIGHTING CIRCUITS &/OR THE DEDICATED EMERGENCY LIGHTING CIRCUIT(S)). ALL CENTRAL BATTERY SYSTEMS & INSTALLATIONS TO BE MADE REDUNDANT & STRIPPED OUT.
- EXISTING AUTOMATIC FIRE DETECTION SYSTEM TO BE RETAINED & SYSTEM SERVICED. SYSTEM UPLIFTS SHALL BE PROVIDED BASED ON AN UPDATED FIRE RISK ASSESSMENT.
- EXISTING INTRUDER DETECTION SYSTEM TO BE RETAINED, CLEANED & SERVICED. DETECTION TO BE REVIEWED & UPDATED BASED ON A SECURITY RISK ASSESSMENT.

EXISTING OFFICE AREAS:

TYPICAL WORKS:

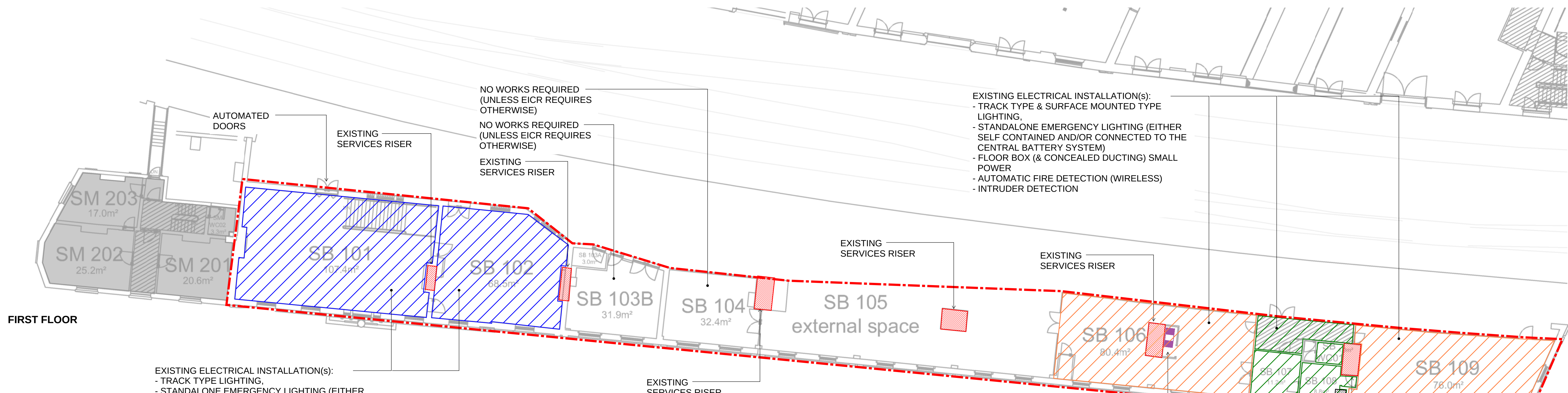
- ELECTRICAL INSTALLATION CONDITION REPORT (EICR) TO BE CARRIED OUT WITH AGREED ELECTRICAL INSTALLATION REPAIRS & UPGRADES CARRIED OUT.
- FLOOR BOX SMALL POWER INSTALLATION TO BE SAFELY ISOLATED, DECOMMISSIONED & STRIPPED OUT (MANUFACTURED BLANKING PLATES TO COVER SOCKET OUTLETS REMOVED).
- EXISTING DADO TRUNKING INSTALLATION TO BE SAFELY ISOLATED, DECOMMISSIONED & STRIPPED OUT.
- EXISTING TRACK LIGHTING TO BE SAFELY ISOLATED, DECOMMISSIONED & STRIPPED OUT.
- EXISTING LED BASED SELF CONTAINED (WITH BATTERY BACK UP) EMERGENCY LIGHTING & ILLUMINATED EXIT SIGNAGE TO BE RETAINED, CLEANED & SERVICED. NON LED BASED EMERGENCY LUMINAIRES & ILLUMINATED EXIT SIGNAGE TO BE REPLACED WITH LED SELF CONTAINED FITTINGS (FED FROM LOCAL LIGHTING CIRCUITS &/OR THE DEDICATED EMERGENCY LIGHTING CIRCUIT(S)). ALL CENTRAL BATTERY SYSTEMS & INSTALLATIONS TO BE MADE REDUNDANT & STRIPPED OUT.
- EXISTING AUTOMATIC FIRE DETECTION SYSTEM TO BE RETAINED & SYSTEM SERVICED. FIRE RISK ASSESSMENT TO BE CARRIED OUT TO DETERMINE NECESSARY UPLIFTS.
- EXISTING INTRUDER DETECTION SYSTEM TO BE RETAINED, CLEANED & SERVICED. SECURITY RISK ASSESSMENT TO BE CARRIED OUT TO DETERMINE NECESSARY UPLIFTS.

EXISTING OFFICE ANCILLARY AREAS:

TYPICAL WORKS:

- ALL ELECTRICAL SERVICES AFFECTED BY THE DEMOLISHMENT WORKS TO BE SAFELY ISOLATED & STRIPPED OUT.
- EXISTING LED BASED SELF CONTAINED (WITH BATTERY BACK UP) EMERGENCY LIGHTING & ILLUMINATED EXIT SIGNAGE TO BE RETAINED, CLEANED & SERVICED. NON LED BASED EMERGENCY LUMINAIRES & ILLUMINATED EXIT SIGNAGE TO BE REPLACED WITH LED SELF CONTAINED FITTINGS (FED FROM LOCAL LIGHTING CIRCUITS &/OR THE DEDICATED EMERGENCY LIGHTING CIRCUIT(S)). ALL CENTRAL BATTERY SYSTEMS & INSTALLATIONS TO BE MADE REDUNDANT & STRIPPED OUT.
- EXISTING AUTOMATIC FIRE DETECTION SYSTEM TO BE RETAINED & SYSTEM SERVICED. SYSTEM UPLIFTS SHALL BE PROVIDED BASED ON AN UPDATED FIRE RISK ASSESSMENT.
- EXISTING INTRUDER DETECTION SYSTEM TO BE RETAINED, CLEANED & SERVICED. DETECTION TO BE REVIEWED & UPDATED BASED ON A SECURITY RISK ASSESSMENT

ELECTRICAL INSTALLATION CONDITION REPORT & THERMOGRAPH SURVEY TO BE CARRIED OUT DETERMINE ADDITIONAL SCOPE ITEMS.

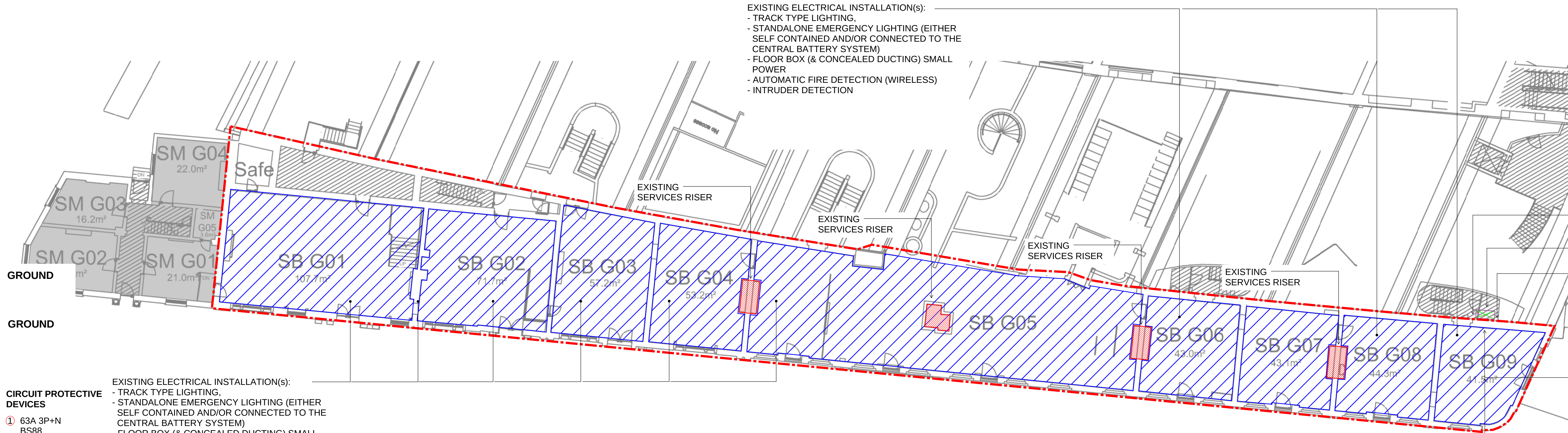


FIRST FLOOR

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE & SURFACE MOUNTED TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION



GROUND

GROUND

CIRCUIT PROTECTIVE DEVICES

- 63A 3P+N BS88
- 160A 3P+N BS88
- 63A 3P+N BS88
- 63A 3P+N BS88
- 63A 3P+N BS88

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION

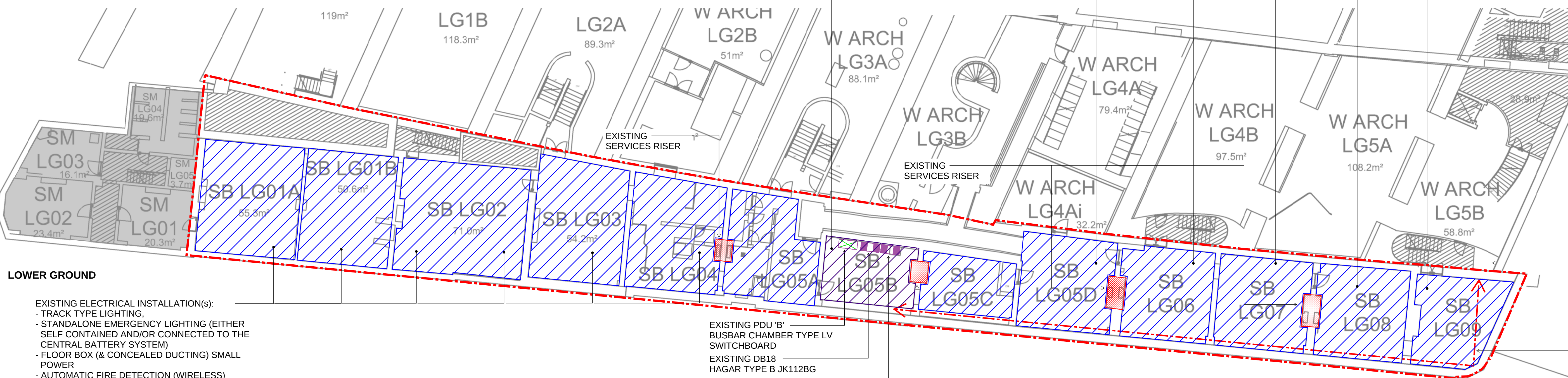
EXISTING MAIN LV SWITCHGEAR TO BE SAFELY ISOLATED & STRIPPED OUT (ALL FORMER CIRCUIT WAY CONNECTIONS TO BE RE-DRESSED IN ANTICIPATION FOR THE INSTALLATION OF A NEW MCCB PANELBOARD)

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION

STATION BUILDING EMS FIRE CALL FIRE ALARM PANEL REPEATER PANEL
STATION BUILDING EMS FIRE CALL FIRE ALARM PANEL
STATION BUILDING FIRE ALARM BATTERY BACK-UP POWER SUPPLY

STATION BUILDING 'EMERGENCY LIGHTING TEST KEYSWITCHES' LOCATED IN A POLYCARBONATE BOX INSTALLED WITHIN THE CUPBOARD (GRID FACEPLATE MISSING).

STATION BUILDING 'TECECOM PREMIER ELITE BXP EXTENDERS' INTRUDER DETECTION FIELD DEVICES LOCATED IN A POLYCARBONATE BOX INSTALLED WITHIN THE CUPBOARD.



LOWER GROUND

EXISTING ELECTRICAL INSTALLATION(S):
- TRACK TYPE LIGHTING
- STANDALONE EMERGENCY LIGHTING (EITHER SELF CONTAINED AND/OR CONNECTED TO THE CENTRAL BATTERY SYSTEM)
- FLOOR BOX (& CONCEALED DUCTING) SMALL POWER
- AUTOMATIC FIRE DETECTION (WIRELESS)
- INTRUDER DETECTION

EXISTING PDU 'B' BUSBAR CHAMBER TYPE LV SWITCHBOARD
EXISTING DB19 HAGAR TYPE B JK112BG
EXISTING DB19 HAGAR TYPE B JK112BG
EXISTING SERVICES RISER

EXISTING STORE CURRENTLY USED AS AN ELECTRICAL RISER CUPBOARD. EXISTING ELECTRICAL SERVICE CABLING DISTRIBUTIONS FROM THE FLOOR ABOVE & EITHER DISTRIBUTES AT HIGH LEVEL AND/OR DISTRIBUTES VIA THE BURIED DUCTING & FLOOR BOX SYSTEM (BACK TO THE STATION BUILDINGS' MAIN LV SWITCHGEAR LOCATION SB LG05B).

ASSUMED BURIED DUCTING ROUTE BACK TO FINAL DISTRIBUTION EQUIPMENT LOCATED WITHIN ROOM LG05B.

P1	FOR INFORMATION	SK	03.12.21
REV.	DESCRIPTION	BY	DATE

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BSP Design | Building projects | Commissioning management | Building information modelling
CIBSE | acq | LOW | CARBONCONSULTANTS | ISO 9001/5018

Client SCIENCE MUSEUM GROUP
Architect BUTRESS ARCHITECTS

Job Title SCIENCE AND INDUSTRY MUSEUM MANCHESTER

Drawing Title

ELECTRICAL SERVICES
PROPOSED ENABLING WORKS

Scale	NTS @ A0	Drawn	SK	SILCE Project No.
Date	DECEMBER '21	Checked	SK	11582

Drawing Number	PROJECT	ORIGINATOR	DATE	REV.	NO.	STATUS	REV.
SIM - SILCE-ZZ-ZZ-DR-E-1001					50	P1	

FOR INFORMATION