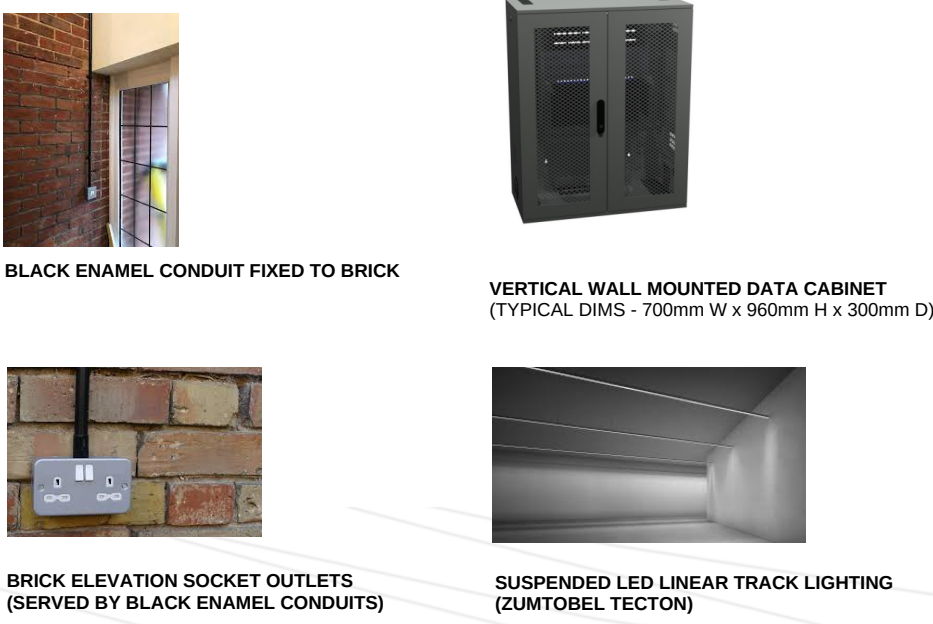
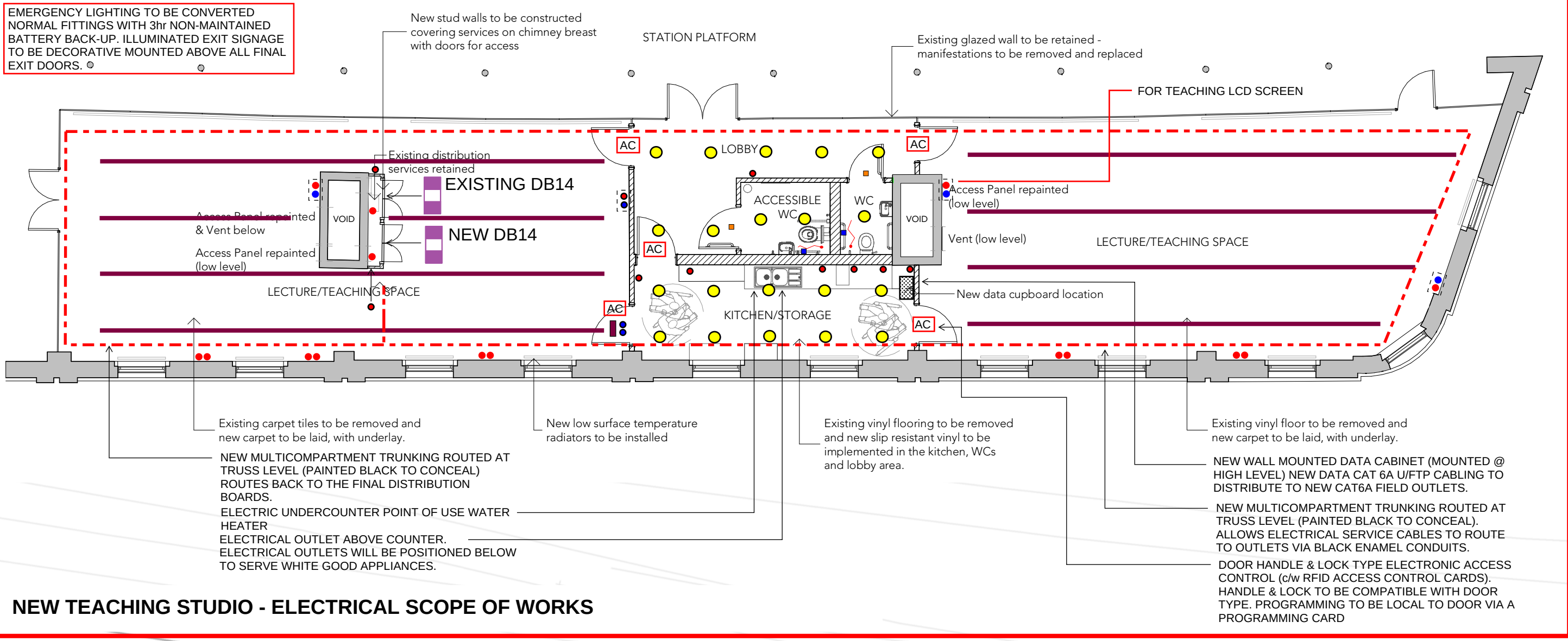




- SURFACE MOUNTED METACLAD TYPE SWITCHED DOUBLE SOCKET OUTLET SERVED VIA BLACK ENAMEL CONDUITS
- SURFACE MOUNTED METACLAD TYPE RJ45 OUTLET
- RECESSED SWITCHED DOUBLE SOCKET OUTLET
- RECESSED RJ45 OUTLET
- HAGAR TYPE B 18WAY MCB/RCBO FINAL DISTRIBUTION BOARD
- WIRELESS ACCESS POINT (MOUNTED @ HIGH LEVEL)
- SUSPENDED DECORATIVE LED LINEAR TRACK LUMINAIRE (DALI DIMMABLE WITH DAYLIGHT LINKING, ABSENCE DETECTION & MANUAL SWITCH DIM OVERRIDE)
- SUNLINE RECESSED LED DOWNLIGHTER (DALI DIMMABLE WITH DAYLIGHT LINKING & PRESENCE DETECTION AUTOMATIC SWITCHING)
- DISABLE TOILET ALARM (CONSISTS OF PULL CORD, OVERDOOR ALARM & BEACON AND ALARM CALL & RESET PANEL)



NOTES

1. THIS DRAWING SHALL BE READ INCONJUNCTION WITH SLICE DRAWING SIM-SLCE-ZZ-ZZ-DR-E-1001 .

LEGEND

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

LEGEND

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).

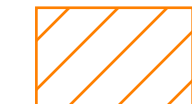
EXISTING MUSEUM AREAS:

ELECTRICAL SCOPE OF WORKS (NEW WORKS):

- GENERAL LIGHTING: ALL NON LED LAMPS TO BE REPLACED WITH SUITABLE LED REPLACEMENT LAMPS (AND/OR COMPLETE LED TYPE LUMINAIRES COMPATIBLE WITH THE INSTALLED LIGHTING TRACK.
- THE EMERGENCY LIGHTING TO BE UPGRADED WITH A NEW DISCRETE 230V CENTRAL BATTERY SYSTEM(S) (COMPLETE WITH LOCAL LIGHTING CIRCUIT MONITORING & NEW ENHANCED FIRE RATED CABLING WITH WHITE SHEATHS. THE CABLING TO BE DISCRETELY & NEATLY SURFACE FIXED WITH FIRE RATED FIXINGS) WITH NEW NON MAINTAINED DECORATIVE EMERGENCY LUMINAIRES & NEW DECORATIVE LED ILLUMINATED EXIT SIGNAGE INSTALLED TO MEET BS5266-1 & THE BUILDINGS' FIRE RISK ASSESSMENT REQUIREMENTS. EXISTING LED BASED SELF-CONTAINED EMERGENCY LUMINAIRES & ILLUMINATED EXIT SIGNAGE TO BE RETAINED (IF LED BASED & CLEANED & SERVICED). THE NEW EMERGENCY LIGHTING SYSTEM TO BE PROVIDED WITH SECRET KEYSWITCH EMERGENCY TEST SWITCHES (TO BE LOCATED ADJACENT TO FINAL DISTRIBUTION BOARDS DB18 & 19). THE EXISTING SELF-CONTAINED EMERGENCY LIGHTING TESTING ARRANGEMENT TO BE RETAINED BUT RELOCATED (REFER TO DRAWING FOR FURTHER DETAILS).
- EXISTING DAVIS FLOOR BOX SMALL POWER INSTALLATION TO BE REPLACED WITH NEW SMALL POWER CIRCUITS & COMPATIBLE SWITCHED DOUBLE SOCKET OUTLETS WITH RCBO CIRCUIT PROTECTION (ALL EXISTING FLOORBOXES & VISIBLE FLOOR BOX SYSTEM COMPONENTS TO BE CLEANED & REPAIRED (IF REQUIRED)).
- EXISTING SMALL POWER INSTALLATIONS WITHIN THE LOWER GROUND AREA TO BE RE-CABLED BACK TO DB18 & 19 USING SURFACE MOUNTED BLACK SHEATHED FLEXIBLE TYPE CABLE (RATHER THAN CABLED VIA THE FLOOR DUCTING SYSTEM).
- 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 AN UPDATED SECURITY RISK ASSESSMENT.

REFER TO DRAWING FOR FURTHER SCOPE OF WORKS & DETAILS.

ADDITIONAL WORKS MAYBE REQUIRED ON THE OUTCOME OF THE ELECTRICAL INSTALLATION CONDITION REPORT & INSTALLATION THERMOGRAPHIC SURVEY.



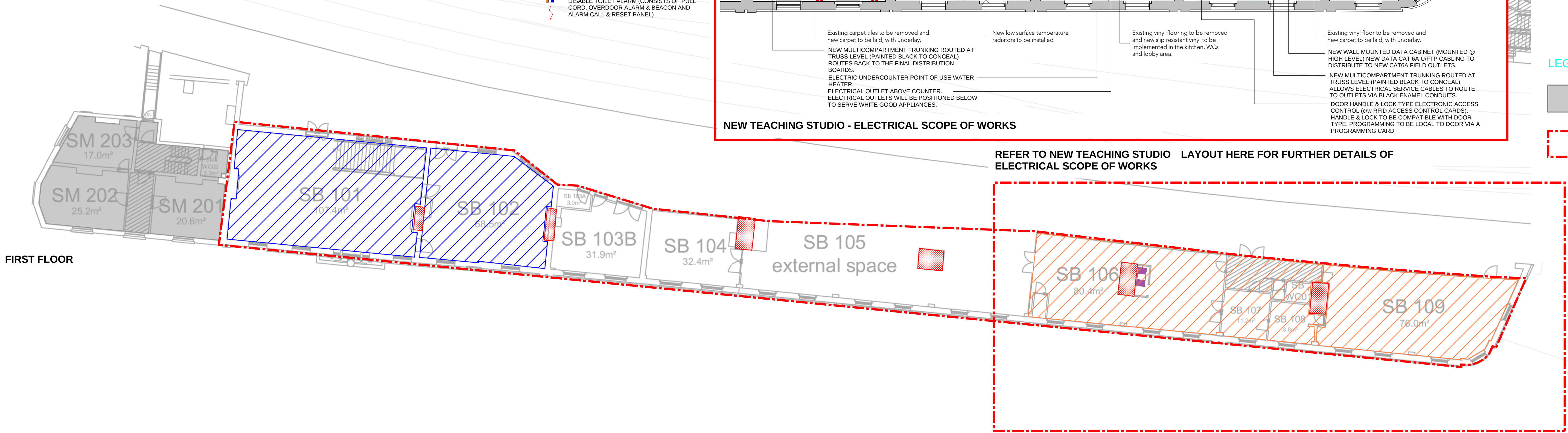
NEW TEACHING STUDIO PLATFORM:

ELECTRICAL SCOPE OF WORKS (NEW WORKS):

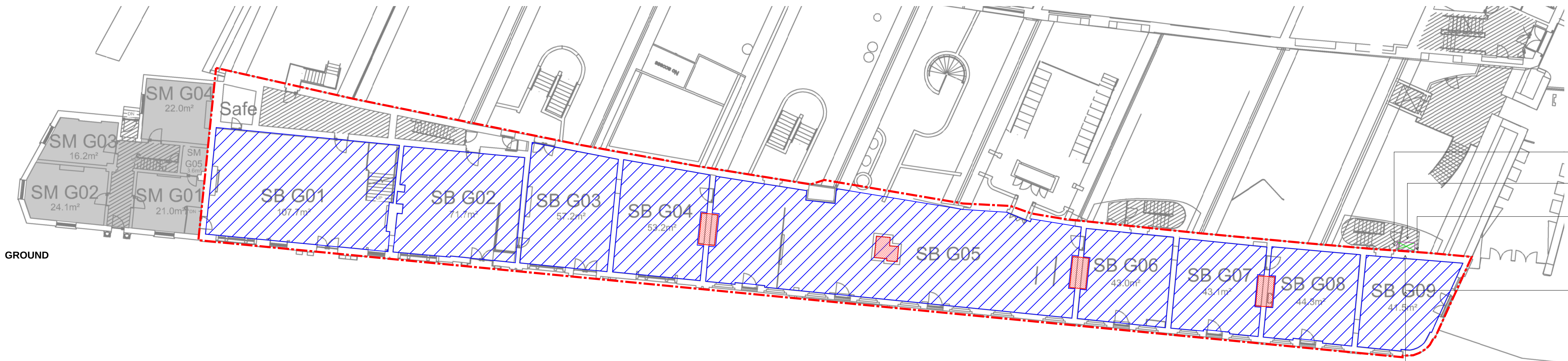
- NEW GENERAL LIGHTING, EMERGENCY LIGHTING & ILLUMINATED EXIT SIGNAGE INSTALLATION.
- NEW ELECTRICAL DISTRIBUTION INSTALLATIONS CONSISTING OF A NEW FINAL DISTRIBUTION BOARD, THE CONNECTION OF THE EXISTING DB TO THE NEW FINAL DISTRIBUTION (VIA A DB MOUNTED TERMINAL BLOCK) & ALL PRIMARY & SECONDARY CONTAINMENT (CONSISTING OF BLACKED OUT GALVANISED STEEL TRUNKING & METALLIC CONDUITS)
- NEW STRUCTURAL CABLING INSTALLATION (TO INCLUDE NEW CAT6A U/FTP STRUCTURAL CABLING TO SERVE THE TEACHING STUDIO AREA ONLY, VERTICAL RISER TYPE DATA CABINET, CAT6A PATCH PANELS, POWER DISTRIBUTION UNIT, THE RELOCATION OF EXISTING NETWORK EQUIPEMENT & RELOCATION & REINSTALLATION OF THE EXISTING GROUND & LOWER GROUND STRUCTURAL CABLING TO THE NEW CABINET LOCATION)
- EXISTING AUTOMATIC FIRE DETECTION SYSTEM TO BE RETAINED, REINSTALLED & SYSTEM SERVICED & RECOMMISSIONED. FIRE RISK ASSESSMENT TO BE CARRIED OUT TO DETERMINE NECESSARY UPLIFTS
- EXISTING INTRUDER DETECTION SYSTEM TO BE RETAINED, REINSTALLED, CLEANED & SERVICED. SECURITY RISK ASSESSMENT TO BE CARRIED OUT TO DETERMINE NECESSARY UPLIFTS.

REFER TO DRAWING LAYOUTS FOR FURTHER SCOPE OF WORKS & DETAILS.

ADDITIONAL WORKS MAYBE REQUIRED ON THE OUTCOME OF THE ELECTRICAL INSTALLATION CONDITION REPORT & INSTALLATION THERMOGRAPHIC SURVEY.



FIRST FLOOR



GROUND

CIRCUIT PROTECTIVE DEVICES

- HDAX160 TM 125A 3P+N
- HDAX160 TM 160A 3P+N
- HDAX160 TM 63A 3P+N
- HDAX160 TM 63A 3P+N
- HDAX160 TM 63A 3P+N
- HDAX160 TM 63A 3P+N

NEW PDU 'B' HAGAR INVICTA 3 12WAY 400A MCCB PANELBOARD

NEW 35mm SC XLPE/SWIA/SF DB18 & DB19

DB17 (STATION MASTERS OFFICE)

DB17 (LAUNDRY SCENE)

BOILER HOUSE H&V PANEL

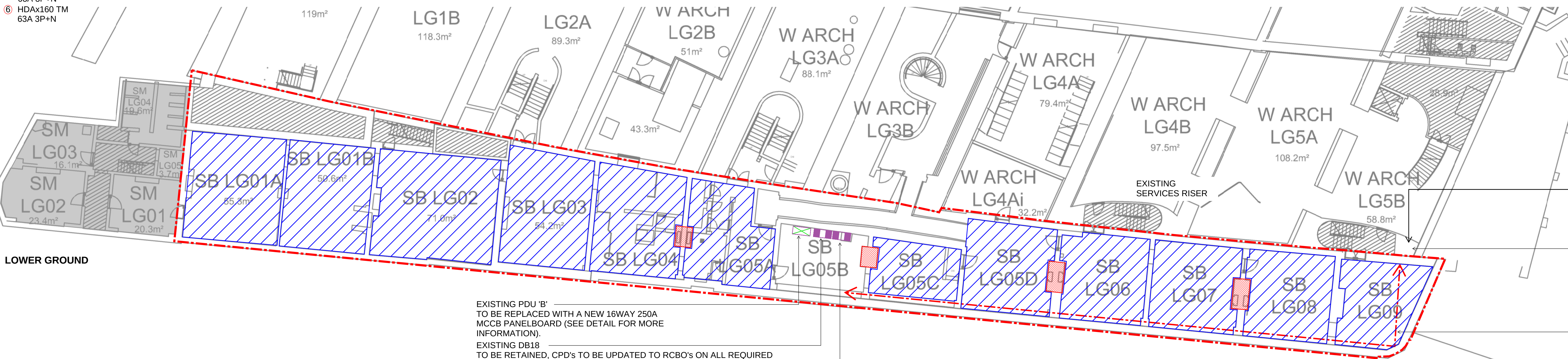
FIRE ALARM PANEL (STAIR CUPBOARD OFF LG5B)

SPARE SPARE SPARE SPARE SPARE

400A 3P+N MCCB ISOLATOR

NEW hagat h250LSI 250A 3P+N MCCB IN A WALL MOUNTED ENCLOSURE LOCATED ADJACENT TO NEW PANEL

LOWER GROUND



- STATION BUILDING EMS FIRE CALL FIRE ALARM PANEL (REPEATER) TO REMAIN
- STATION BUILDING EMS FIRE CALL FIRE ALARM PANEL (TO BE RELOCATED TO LOWER GROUND STORE BELOW)
- STATION BUILDING FIRE ALARM BATTERY BACK-UP POWER SUPPLY & FUSED CONNECTION UNITS TO BE RELOCATED TO LOWER GROUND STORE BELOW)
- STATION BUILDING 'EMERGENCY LIGHTING TEST KEYSWITCHES' & TRACK LIGHT SWITCHES TO BE REPLACED WITH A NEW MULTIPLE LIGHT & SECRET KEYSWITCH GRID TYPE ARRANGEMENT ALL INSTALLED WITHIN AN IP67 ABS ENCLOSURE WITH WATERPROOF TRANSPARENT HINGED DOOR (ALL LOCATED WITHIN STORE).
- STATION BUILDING 'TEXECOM PREMIER ELITE 8XP EXTENDERS' INTRUDER DETECTION FIELD DEVICES TO BE INSTALLED WITHIN AN IP67 ABS ENCLOSURE WITH WATERPROOF HINGED DOOR.

STATION BUILDING EMS FIRE CALL FIRE ALARM PANEL INSTALLED ONTO THE PARTITION STUD WALL.

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 (DB18 & DB19) LOCATED WITHIN ROOM LG05B.

EXISTING PDU 'B' TO BE REPLACED WITH A NEW 16WAY 250A MCCB PANELBOARD (SEE DETAIL FOR MORE INFORMATION).  
EXISTING DB18 TO BE RETAINED. CPD's TO BE UPDATED TO RCBO's ON ALL REQUIRED OUTGOING CIRCUITS & RECONNECTED TO NEW PANELBOARD  
EXISTING DB19 TO BE RETAINED. CPD's TO BE UPDATED TO RCBO's ON ALL REQUIRED OUTGOING CIRCUITS & RECONNECTED TO NEW PANELBOARD

|     |                 |    |          |
|-----|-----------------|----|----------|
| P1  | FOR INFORMATION | SK | 03.12.21 |
| REV | DESCRIPTION     | BY | DATE     |

**SILCOCK LEEDHAM**

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ACE LOW CARBON CONSULTANTS ISO 9001

Client: SCIENCE MUSEUM GROUP  
Architect: BUTRESS ARCHITECTS

Job Title: SCIENCE AND INDUSTRY MUSEUM MANCHESTER

Drawing Title: ELECTRICAL SERVICES PROPOSED SCOPE OF NEW WORKS

|       |              |         |    |                   |
|-------|--------------|---------|----|-------------------|
| Scale | NTS @ A0     | Drawn   | SK | SLICE Project No. |
| Date  | DECEMBER '21 | Checked | SK | 11582             |

|                            |                                                              |        |     |
|----------------------------|--------------------------------------------------------------|--------|-----|
| Drawing Number             | PROJECT - ORGANISATION - ZONE - LEVEL - TYPE - ROLE - NUMBER | STATUS | REV |
| SIM - SLCE-ZZ-ZZ-DR-E-1002 |                                                              | 50     | P1  |

FOR INFORMATION