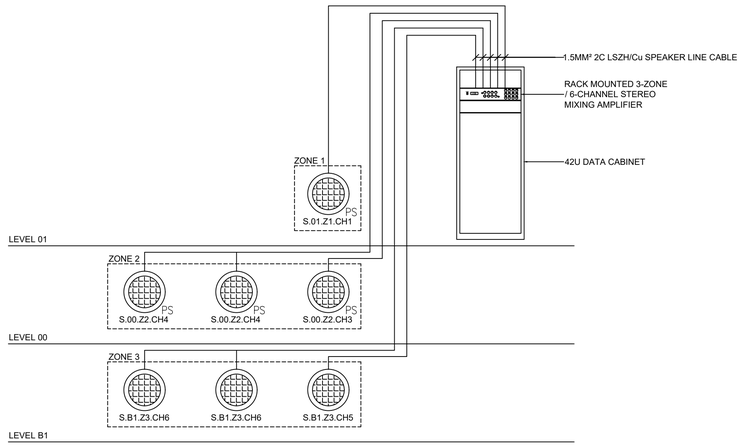
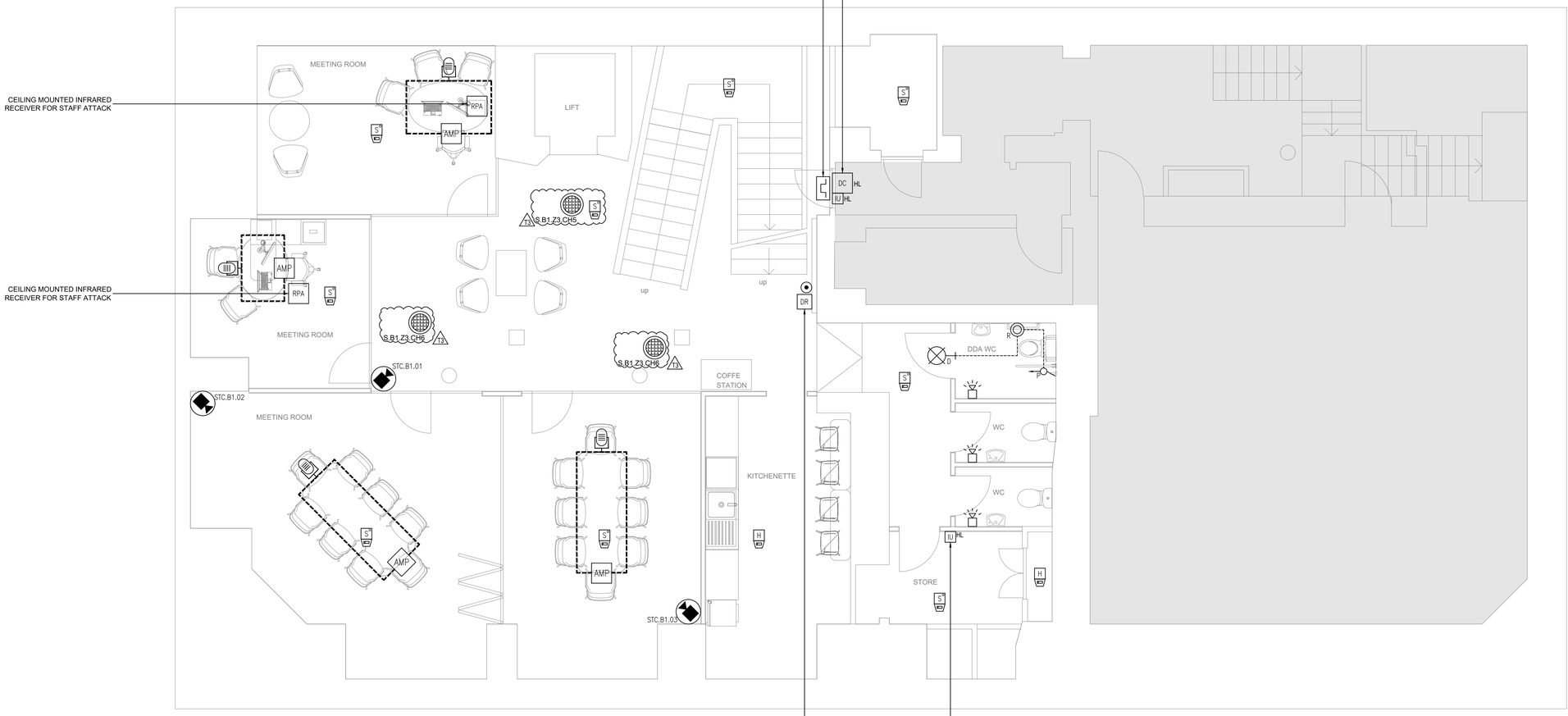
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DO NOT SCALE FROM THIS DRAWING.
CHECK ON SITE AND REPORT ALL DISCREPANCIES TO CLARK DEGNAN LIMITED.



AUDIO SOUND SYSTEM SCHEMATIC
SCALE@1:25



NOTES - GENERAL

1. DO NOT SCALE FROM THIS DRAWING.
2. THIS IS NOT AN INSTALLATION DRAWING.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL AND ELECTRICAL TENDER SPECIFICATIONS, AND ALL ACCOMPANYING TENDER DRAWINGS AND SPECIFICATIONS, INCLUDING ARCHITECTURAL, STRUCTURAL ENGINEERING, CIVIL ENGINEERING, MEP AND OTHER THIRD PARTY DESIGNERS.
4. ALL SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND WORKMANSHIP CLAUSES DETAILED WITHIN THE ACCOMPANYING SPECIFICATION (WHERE PROVIDED).
5. THE DESIGN AND INSTALLATION SHALL COMPLY WITH THE BUILDING REGULATIONS, BRITISH STANDARDS, EU LEGISLATION, STATUTE, CIBSE GUIDES, CIBSE COMMISSIONING CODES, B&ES, H&S GUIDANCE AND ACOP'S, THE GAS REGULATIONS AND ALL OTHER APPLICABLE REGULATIONS.
6. THE CONTRACTOR SHALL ALLOW FOR SPECIALIST COMMISSIONING OF ALL ELECTRICAL SYSTEMS BY THE MANUFACTURER OR MANUFACTURERS APPOINTED AGENT.
7. FOLLOWING COMPLETION OF THE INSTALLATION, THE SYSTEMS SHALL BE TESTED AND COMMISSIONED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SEEK CONFIRMATION OF ACCEPTANCE OF THE PROPOSALS BY THE BUILDING CONTROL OFFICER.
10. THE ELECTRICAL INSTALLATIONS SHALL BE COMPLIANT WITH THE REQUIREMENTS OF BS 7671:2018. THE CONTRACTOR SHALL CARRY OUT ALL TESTING AND INSPECTION WORKS IN STRICT ACCORDANCE WITH BS 7671.
11. APPLIANCES AND EQUIPMENT FUSED CONNECTION UNITS AND ISOLATORS SHALL BE ENGRAVED TO INDICATE THE EQUIPMENT THEY SERVE.
12. ACCESS PANELS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR TO ALLOW ELECTRICAL, ISOLATORS, CONTROLLERS, ETC. TO BE EASILY ACCESSED AND MAINTAINED.
13. ALL ELECTRICAL ACCESSORIES LOCATED IN SERVICE RISERS, PLANT/SWITCH ROOMS SHALL BE OF THE METAL CLAD TYPE. CABLING TO THESE ACCESSORIES SHALL BE BY GALVANISED STEEL TRUNKING OR CONDUIT.
14. CONTAINMENT, BUSBARS AND ELECTRICAL ACCESSORIES PASSING THROUGH FIRE COMPARTMENTS SHALL BE SUITABLY FIRE SEALED/STOPPED.

NOTES - FIRE ALARMS

1. THE FIRE ALARM INSTALLATION SHALL BE IN COMPLIANCE WITH BS5839 - 1, CATEGORY L2.
2. FIRE ALARM CABLING SHALL GENERALLY BE CONCEALED AND CLIPPED DIRECT WHERE POSSIBLE. OTHER CONTAINMENT SYSTEMS SHALL BE USED WHERE CLIPPED DIRECT IS NOT SUITABLE.
3. DETECTORS SHALL BE POSITIONED IN ACCORDANCE WITH BS 5839-1 WITH RESPECT TO HVAC EQUIPMENT AND BEAMS/DOWNSTANDS, ETC.
4. CABLE INSTALLATIONS FOR THE FIRE ALARM SYSTEM SHALL BE ENHANCED FP PLUS OR EQUAL.
5. ALL INTERFACE UNITS SHALL BE LABELLED TO INDICATE THE EQUIPMENT THEY SERVE/CONTROL.
6. ANY FRONT OF HOUSE MANUAL CALL POINTS SHALL BE IN KEEPING WITH THE INTERIOR DESIGN.

NOTES - SECURITY, ACCESS, CCTV & AUDIO

1. CCTV SYSTEM SHALL INCORPORATE POWER OVER ETHERNET (POE) STATIC DOME CAMERAS.
2. EACH CAMERA SHALL BE COMPLETE WITH A DEDICATED DATA CONNECTION AND SHALL SUITABLY RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.
3. DOOR ACCESS EQUIPMENT SHALL BE AS DIRECTED BY THE SCHEDULE OF MANUFACTURERS.
4. ALARM AND ACCESS CONTROL CABLING SHALL GENERALLY BE CONCEALED, MOUNTED ON CABLE BASKET OR PVC CONDUIT DROPS TO FINAL CONNECTION POINTS.
5. INTRUDER ALARM SYSTEM SHALL BE INSTALLED TO PROVIDE A GRADE 3 SYSTEM COMPLETE WITH PANIC BUTTONS.
6. ALL INTRUDER ALARM DOOR CONTACTS SHALL BE RECESSED CONCEALED UNITS.
7. THE CONTRACTOR SHALL ALLOW FOR SPECIALIST DESIGN/COMMISSIONING OF THE AUDIO SOUND SYSTEM, ACS TECHNOLOGIES HAVE BEEN INVOLVED IN DESIGN DISCUSSIONS - MATTHEW JEFFERSON (0191 417 8882)

LEGEND

FIRE ALARM
- FAP — FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT
- S — SMOKE DETECTOR
- H — HEAT DETECTOR
- SOUNDER BASE
- SOUNDER BASE WITH BEACON
- SURFACE MOUNTED SOUNDER & BEACON
- IU — INTERFACE UNIT (RELAY)
- REMOTE INDICATOR UNIT

CCTV
- STC.XX.XX — STATIC CLOSED CCTV CAMERA

INTRUDER ALARM
- CONCEALED RECESSED DOOR CONTACT
- DUAL-TEC SENSOR
- IAP — INTRUDER ALARM PANEL
- KP — INTRUDER ALARM MAIN KEYPAD
- A/D — AUTOMATIC DOOR WITH PROXIMITY SENSORS
- RPA — RADIO PANIC ALARM
- RFT — STAFF ATTACK RADIO FREQUENCY TRANSMITTER AND CONTROL PANEL
- SMD — SEISMIC DETECTOR

DOOR ACCESS
- R — CARD/FOB PROXIMITY READER
- G — GREEN EMERGENCY BREAK GLASS
- RTE — REQUEST TO EXIT BUTTON (DDA COMPLIANT)
- ELECTRO-MAGNETIC DOOR LOCK/ STRIKE
- DC — ON-LINE DOOR CONTROLLER

INDUCTION LOOP
- AMP — AUDIO FREQUENCY INDUCTION LOOP AMPLIFIER
- AUDIO FREQUENCY INDUCTION LOOP MICROPHONE
- AUDIO FREQUENCY INDUCTION LOOP TAPES

AUDIO
- ADASTRA - CC RECESSED CIRCULAR CEILING SPEAKERS, COMMERCIAL-GRADE
- PS — ADASTRA - PS50 5" SUSPENDED PENDANT SPEAKER
- AMP — ADASTRA - A6 3-ZONE / 6-CHANNEL STEREO MIXING AMPLIFIER

EMERGENCY VOICE COMMUNICATOR
- DRP — DISABLE REFUGE PANEL & ASSISTED ALARM PANEL
- DR — DISABLE REFUGE ALARM CALL POINT

ASSISTED ALARM
- P — ALARM ACTIVATION PULL SWITCH
- R — ALARM RESET UNIT
- D — ALARM OVER DOOR INDICATOR LIGHT

ABBREVIATIONS
- CV — CEILING VOID

Rev	Amendment	Date	By
00	COMMENT ISSUE	30.08.24	CC
T1	TENDER ISSUE	25.10.24	CC
T2	TENDER ISSUE - UPDATES	05.11.24	CC
T3	TENDER ISSUE - SOUND SYSTEM UPDATE	19.11.24	CC

ACTIVITY	⚠ RESIDUAL RISKS ⚠	CONTROL MECHANISM & COMMUNICATION
SITE DELIVERY OF MATERIALS, C.O. SWITCHGEAR, CONTAINMENT, LUMINAIRES	- VEHICLE TO PERSON COLLISIONS - MANUAL HANDLING	NOTIFY ALL PARTIES CONCERNED OF DELIVERY DATES AND TIMES. ENSURE ALL PARTIES ARE FULLY AWARE OF SITE LIMITS IN PARTICULAR LIMITED SPACE FOR UNLOADING AND RESTRICTED ACCESS TIMES.
TEMPORARY ELECTRICAL SUPPLIES TO SITE OFFICES AND SITE COMPOUNDS	- ELECTRIC SHOCK	ENSURE ALL SUPPLIES ARE INSTALLED IN ACCORDANCE WITH IET REGULATIONS, REC REQUIREMENTS AND IN LOCATIONS THAT ARE ONLY ACCESSIBLE FOR QUALIFIED AND SUITABLY TRAINED STAFF.
EXTERNAL WORKS AND POSSIBLE PRESENCE OF EXISTING UNDERGROUND SUPPLIES	DAMAGE TO EXISTING SUPPLIES/ELECTRIC SHOCK	OBTAIN DETAILS OF LOCAL UNDERGROUND SERVICES INFORMATION FROM PROVIDERS.CARRY OUT SUB-SCAN SURVEY OF THE PROPOSED ROUTES. SURVEY PROPOSED ROUTES NOTING OBSTRUCTIONS, HAND ON ANY AREAS IDENTIFIED AS CONTAINING UNKNOWN ELEMENTS.
ON SITE USE OF TEMPORARY ELECTRICITY SUPPLIES TO PORTABLE EQUIPMENT	- TRIPPING FROM TRAILING LEADS	MINIMISE THE LENGTH OF TRAILING LEADS. LEADS TO BE ROUTED AND CLIPPED TO WALLS AT HIGH LEVEL WHERE POSSIBLE. ROUTES TO BE IDENTIFIED ON SITE PLANS AND HELD BY THE MAIN CONTRACTOR.
DRILLING/CHASING OF WALLS, ETC. FOR CONTAINMENT FIXINGS	- DUST/INJURY TO EYES. INHALATION OF DUST	APPROPRIATE PPE TO BE USED, E.G. EYE PROTECTION AND DUST MASKS
HANDLING OF HEAVY EQUIPMENT	- INJURY - MUSCLE STRAIN - BONE FRACTURE	ENSURE ADEQUATE LABOUR/MECHANICAL HANDLING EQUIPMENT IS AVAILABLE AND ADHERE TO GOOD PROCEDURES AND WORKING PRACTICES FOR LIFTING OPERATIONS.
GENERAL WORKING	- INJURY TO SITE PERSONNEL AND VISITORS	SITE ACCESS TO BE RESTRICTED AND CONTROLLED. ALL SITE PERSONNEL TO BE INDUCTED BY THE MAIN CONTRACTOR. ALL PERSONNEL WORKING ON OR VISITING SITE TO HAVE APPROPRIATE PPE FOR THE ENVIRONMENT THEY ENTER OR PASS THROUGH.

TENDER

ARCHITECT'S DRAWING REFERENCE	REVISION
24003-09	N/A

Clark Degnan Consulting Engineers

Clark Degnan Limited

Durham Office
Humber House,
Mandale Business Park
Belmont Industrial Estate
County Durham, DH1 1TH
Tel : 0191 3860860
www.clarkdegnan.co.uk

Newcastle Office
Amber Court,
William Armstrong Drive,
Newcastle upon Tyne
NE4 7YA
Tel : 0191 4325692
www.clarkdegnan.co.uk

Client: NEWCASTLE BUILDING SOCIETY

Project Title: 74 KING STREET MANCHESTER

Drawing Title: ELECTRICAL SERVICES PROPOSED FIRE ALARM & SECURITY SYSTEMS LAYOUT - LEVEL B1

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