

CASE STUDY

PROJECT: SPECIALIST LABORATORY & WORKSPACE ELECTRICAL INSTALLATION

CLIENT: ZETA ANALYTICAL

PROJECT DESCRIPTION

A SPECIALIST ELECTRICAL INSTALLATION WAS DELIVERED AS PART OF THE TRANSFORMATION OF AN EXISTING CAT A COMMERCIAL SPACE INTO A FULLY FITTED CAT B LABORATORY AND OFFICE ENVIRONMENT.

THIS INVOLVED A COMPREHENSIVE PACKAGE DESIGNED AROUND THE SPECIFIC REQUIREMENTS OF A MODERN LAB FACILITY. WORKS INCLUDED NEW 125A AND 250A DISTRIBUTION BOARDS, SUBMAIN CABLING AND MCCB PANEL DISTRIBUTION, TOGETHER WITH POWER SUPPLIES FOR MECHANICAL PLANT, LAB FUME CUPBOARDS & SPECIALIST EQUIPMENT.

THE INSTALLATION ALSO INCORPORATED EXTENSIVE CONTAINMENT, LED & EMERGENCY LIGHTING, SMALL POWER, FLOOR BOXES, STRUCTURED CAT6 DATA CABLING, COMMS CABINETS, ENERGY METERING, FIRE AND INTRUDER ALARM SYSTEMS.

LAB, OFFICE AND ANCILLARY AREAS WERE ALL DELIVERED AS PART OF THE INSTALLATION.

THE CHALLENGE

THE KEY CHALLENGE WAS DELIVERING A TECHNICALLY DETAILED ELECTRICAL INSTALLATION WITHIN A SPECIALIST LABORATORY ENVIRONMENT, WHERE THE REQUIREMENTS EXTEND BEYOND THOSE OF A CONVENTIONAL COMMERCIAL OFFICE.

INSTALLATION NEEDED TO ACCOMMODATE A WIDE RANGE OF SPECIALIST EQUIPMENT WHILE COORDINATING MULTIPLE CONTAINMENT TYPES, ENSURING POWER & DATA INFRASTRUCTURE WAS POSITIONED TO SUIT THE FINAL FACILITY LAYOUT.

WORKING IN AN EXISTING CAT A INSTALLATION REQUIRED CAREFUL COORDINATION & INTEGRATION OF NEW SYSTEMS, WITH THE ELECTRICAL WORKS PROGRESSING ALONGSIDE THE WIDER CONSTRUCTION PROGRAMME.



OUTCOME

THE COMPLETED INSTALLATION TRANSFORMED THE EXISTING SPACE INTO A FULLY OPERATIONAL CAT B LAB & OFFICE ENVIRONMENT, PROVIDING THE ELECTRICAL INFRASTRUCTURE REQUIRED FOR BOTH SPECIALIST LABORATORY ACTIVITIES AND DAY-TO-DAY COMMERCIAL USE.

ALL SYSTEMS WERE FULLY TESTED, COMMISSIONED, LABELLED AND CERTIFIED BEFORE HANDOVER, WITH THE PROJECT SUCCESSFULLY COMPLETED WITHIN THE 14-WEEK PROGRAMME.

THE PROJECT DEMONSTRATES THE ABILITY TO DELIVER COMPLEX, MULTI-SYSTEM ELECTRICAL INSTALLATIONS TAILORED TO SPECIALIST ENVIRONMENTS, FROM DISTRIBUTION AND CONTAINMENT THROUGH TO LIGHTING, SPECIALIST POWER, DATA, LIFE-SAFETY SYSTEMS AND FINAL COMMISSIONING.