
PROJECT NAME:

HMRC 3 Arena Central Sprinkler Package

LOCATION:

Birmingham

VALUE:

£980,000

Dodd Group, based on the success of Project 2 Arena Central (HSBC Bank), negotiated and secured this 14 floor Office Block, which will offer 230,000 sq ft of commercial space.

Dodd Group and Design Partners, Capita have taken the design from BSRIA Stage 2 through to BSRIA Stage 5, developing a BIM model to Level 2.

Dodd Group as main MEP management contractor employed Tyco Fire & Integrated services to undertake the design, supply, manufacture, deliver, install, test and commission the automatic fire sprinkler installation, generally to meet with the requirements of the Loss Prevention Council Rules for Automatic Sprinkler Installations (2009) incorporating BSEN12845 and all relevant technical bulletins issued to date. The design works were undertaken and BIM modelled in REVIT to Level 02 LOI 350 detail, with Dodd Group managing TYCO through the design process to provide a fully co-ordinated sprinkler system and aesthetic sprinkler head layout with the other architectural, structural and MEP disciplines.

The sprinkler protection was designed to protect an Ordinary Hazard High Rise Occupancy, the building being over 80mts in height, with Group II Risk in Car Park Areas (Dry - Property Protection System), and Group III Risk in offices and remaining areas (Wet -Life safety protection System). Due to the height of the building dual rising waters mains were provided to ensure sufficient pressure and resilience to the floors was delivered in the event of a fire.

The works involved the full provision of dual electrical pumps, water storage tanks, distribution pipe works, floor zone valves and indications controls to provide a complete sprinkler package and certified to LPS 1090 standards for insurance purposes. Due to the limitations in incoming network power supply and space for standby power generation, the dual pump provision was provided by a single electric and secondary diesel back up pump to overcome locked rotor electrical power supply limitations.

Dodd Group undertook all the LV power supplies infrastructure to the sprinkler system, including and fire alarms interlinks to provide full monitoring and reporting of the sprinkler system to the fire service at the fire control point of entry location.

