

Whitworth Bros. Ltd.
FLOUR MILLERS

New Bakery & Test lab.



Duration: 10 Months
Location: Wellingborough
Contract £: £211,000

Project:
The electrical element of the project required the strip out and removal of the existing switchgear, and the installation of the following elements and equipment within the building.

Cable Installation Info:

- 300mm SWA cable
- 150mm 4 core Green /Yellow
- 70mm 4 core SWA
- 25mm SWA 4 core BASEC
- 16mm SWA 4 core BASEC
- 16mm SWA 3 core BASEC
- 6.0 mm 4core SWA BASEC
- 4.0 mm 4core SWA BASEC
- 6mm Green/Yellow BS7211
- 6mm Blue BS7211 BASEC
- 6mm Brown BS7211 BASEC
- 4mm Green/Yellow BS7211
- 4mm Blue BS7211 BASEC
- 4mm Brown BS7211 BASEC
- 2.5mm Green/Yellow BS7211
- 2.5mm Blue BS7211
- 2.5mm Brown BS7211
- 1.5mm Green/Yellow BS7211
- 1.5mm Blue BS7211
- 1.5mm Brown BS7211
- 1.5mm 3 Core SWA BASEC

Mains and Sub Mains Distribution:

The existing LV Switch Panel was modified to accommodate an additional 1000A/800A MCCB which feeds the new facility. 2 (Nº) 300mm² x 4 core XLPE/SWA/LSF cables were installed in parallel and routed in underground which follows the kerb line of the car park to the new Bakery and Test Laboratory.

A new MCCB Panel Board was located within the new Bakery Plant Room with sub main cables fitted with cable trays to various distribution boards.

Wiring Installation and Containment:

Galvanized cable trunking, tray and baskets were routed through the ceiling voids, which were suspended from the building fabric. Galvanized conduits drop from the ceiling void to accessory positions chased into the building fabric.

Lighting Installation:

The internal lighting installation utilizes a modular lighting control system comprising of lighting control modules, presence detection / absence, daylight dimming in specific areas and manual override switches.

Emergency Luminaires with test key switches are provided to escape routes.

Small Power:

Both the Bakery and the Test Laboratory power is fed from two local distribution boards with circuits controlled via emergency knock off buttons. Three Compartment Dado Trunking was installed in certain areas to provide both power and data to desks and workstations.

Voice / Data:

A fibre optic cable link was installed, then routed through the mill and across the yard. This then serves the data cabinet.

Security:

The system comprises of a Door Access Control, Intruder Alarm and CCTV which was provided by Ace Fire and Security.

Fire Alarm:

The new facility is protected by a new analogue addressable fire alarm system linked to the existing system. Automatic smoke and heat detectors provide protection along with manual call points.

Audible and visible alarm indicators are provided to aid people with hearing difficulties that are present in the building. Fire Alarm Units were also provided to an access system.

Disabled Toilet Alarm

A disabled Toilet alarm including an emergency pull cord, lamp / tone indicator and reset unit was installed.

Did you know?

T James used 31 types of trunking to cover internal cabling!