



ELEM Contracts Ltd
BUILDING SERVICES ENGINEERING

CASE STUDY NO.5

Sector: Industrial (Industrial Services Depot)

Client: Industrial Services Provider

Location: London Road, Glasgow

Contract Duration: 6 weeks

The Project:

Works at London Road (Glasgow), comprised the excavation and installation of SPEN compliant cable ducting to accommodate the client's new, upgraded 315Amp SPEN supply cable. The client's existing main LV distribution switchgear was then upgraded and replaced with new, housed in a dedicated external GRP kiosk with extra capacity for future expansion plans.



Service Provision:

- Tentatively cut, break-out, hand excavate and remove ground spoil to create a track to the SPEN specified level, ready for installation of new SPEN supplied ducting.
- Install free issued SPEN ducting, back fill, install sand and marker tape, steel re-enforcement and appropriate grade concrete finishing.
- Construct new concrete plinth with duct outlets, capable of receiving new GRP enclosure for LV Switchboard.
- Supply & installation new bespoke sized GRP enclosure c/w split compartment, to accommodate the client's new LV Switchboard and the new SPEN CT Chamber, Meter, etc.
- Supply & installation of new 400v, 400Amp LV Switchboard and sub-circuit distribution devices for future use.
- Electrical Testing & Certification, before Client Demonstration and Handover.



The Challenges

There were numerous challenges associated with this project. The primary challenge was navigating our groundworks excavations along a pathway which may contain existing underground utilities (in the absence of any existing utility mapping / drawings).

Another one of the main challenges was to co-ordinate our works and deliveries etc, with the client's own operations, so as to ensure neither party were delayed or disrupted.

We were responsible for liaising with and managing SPEN in regard to their own works and that of Energy Assets for metering works, etc.





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Our Project Delivery

ELEM were involved from the competitive tender stage, through to project delivery and final handover. Our expertise was utilised to execute the works safely, on time, to the client's budget and without defects.

