



## CASE STUDY: FLIP UPGRADE - SOUTHWARK, LONDON

### Background

Falco was instructed to design and implement a solution to a failing flood alleviation scheme servicing six properties in Waterloo near London's South Bank.

### Planning

A flow model analysis carried out by our engineer revealed that the existing 1210 single-phase pump was unable to cope during periods of heavy rainfall, which had caused substantial disruption and a significant number of callouts by Thames Water. We advised replacement with a 1215 three-phase pump.

### Stakeholder Liaison

This challenging project required considerable collaboration with a number of different stakeholders. We worked closely with Thames Water framework supplier, Pump Technical Services (PTS) to design the new scheme.

Our proposed solution needed to be housed in a street-mounted kiosk so we also liaised with planning consultants Studio Charette and the London Borough of Southwark to gain planning permission and a lawful development certificate (LDC) for the works.

We also worked alongside UKPN and Thames Water's meter suppliers Drax during the electrical works.

### Value Engineering

Our innovative solution incorporated a number of value engineering initiatives which helped reduce programme and costs.

It involved replacing the existing pump and baseplate while retaining the pump tank which avoided the costs and disruption associated with excavating and removing the existing cover slab which was located beneath the footpath.

Being a NERS-accredited contractor, we were able to provide UKPN with access to the underground infrastructure, excavating and exposing the ductwork

Sector: Water

Client: Thames Water

Duration: 2 weeks

Completed: July 2022

Location: Southwark, Central London

to allow them to install new joint and connection to power the new scheme while Drax installed a new meter in the kiosk. We installed the new pump, accompanying pipework and three-phase control panel while water flows to the site were controlled by the presence of a combi tanker.

Falco's performance in delivering this challenging project within a tight timescale was outstanding. Their range skills and capabilities combined with an ability to overcome obstacles and devise innovative solutions were key to its success. Their team's ability to seamlessly manage a number of different stakeholders and interfaces to get-the-job-done was also extremely impressive.

**Tony Harrage Technical Coordinator FLIPS Team, Thames Water**



### Falco Construction

Prospect House, 20 Beeby Road, London, E16 1QJ

Tel: 0207 474 3105 | Email: [info@falcoconstruction.co.uk](mailto:info@falcoconstruction.co.uk) | web: [www.falcoconstruction.co.uk](http://www.falcoconstruction.co.uk)

