



# SMITH brothers

## Case Study

### HV Upgrade Works

Owlerton Greyhound Stadium, Sheffield  
WMA Architects

Construction Dates: 28/08/2018 – 09/03/19

### Objectives and purpose

Smith Brothers was appointed by WMA Architects to undertake high-voltage upgrade works at Sheffield's Owlerton Stadium.

As Yorkshire's premier greyhound track, the stadium hosts races almost every day of the week. The wider redevelopment project sees significant updates made across the venue – including a new hospitality suite and general upgrade works.

### Scheme of works

Liaising closely with WMA Architects on behalf of the client, Smith Brothers' engineers analysed the logistics of the build, in order to achieve cost-effective methods for the overall venture, while also retaining a high-quality installation.

Work included the design, supply and installation of an 11kV ring main unit. This involved the establishment of two package substations, including 800kVA transformers – with close coupled ring main units and three low-voltage switchboards – plus associated high and low-voltage cabling.

### Time and safety management

Due to the nature of the project – taking place at a popular visitor attraction – timescales were tight, meaning careful planning was paramount.

In addition, management and resources had to be versatile, in order to integrate with the other contractors on site. Work was coordinated in line with opening hours, and traffic management zones were established to guarantee public safety.

The electrical elements of the project had to be completed on time – subject to Northern Powergrid's own works – to ensure the wider upgrades could begin as scheduled.

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