



Stark Works' gas solution for Tottenham Hotspur Football Stadium

Enhancing Tottenham's **legendary home** with a state-of-the-art **gas installation**.

Background

In 2014, we were invited by Tottenham Hotspur Football Club to quote for the installation of the gas infrastructure for the redesigned football club stadium. We won the bid.

Neatly nestled within the paved labyrinths of Tottenham, London, the old stadium was somewhat of a relic, having been built just before the turn of the 20th century.

It became clear that White Hart Lane was in serious need of redevelopment, as other major Premier League clubs announced their expansion plans.



The Brief

With plans to demolish White Hart Lane and to start anew, Stark Works' task was two-fold; temporary re-routing and eventual disconnection of the old stadium gas supply, as well as the installation of a brand-new gas connection.

A project of this scope and scale required a carefully selected team from Stark Works, working closely with the contracted constructors, Mace, to ensure coordination across the site.

Work was scheduled for completion in three phases, with Phase 1 starting early in 2016, as construction of the new stadium began directly adjacent to the old one, whilst the last few matches of the season were being played.

1.1 km

Accommodated
delivery vehicles by
stopping and starting



Ground excavated lane by
lane to allow continuing
flow of traffic



Diverted around
several existing
utilities supplies

The project

From the outset, it was clear that this project was going to require careful coordination and meticulous planning.

The team were given a precise route from Tottenham Hotspurs Football Club, with GPS reference points to follow, as they carefully threaded through the ground and installed the pipework.

The specification for the new gas installation was a low-pressure supply, using a standard SDR17 250ml, 10-inch pipe polyethylene pipe to the length of approximately 50 metres. Although it was a low-pressure supply, due to the size of supply, a bespoke entry was made from 200ml 8-inch steel to connect the gas supply into the building.

Less disruption

The stadium's proximity to Tottenham High Road meant that Stark Works had to trench across four busy lanes of traffic to connect the newly installed gas pipes to the existing main supply.

Starting at the near-side of the stadium, the ground was dug out, pipes were laid and concrete filled in, before moving across the width of the road in increments over three weeks. At the same time, the team liaised with a groundwork contractor providing communications for the club to avoid it being dug up twice.

The final step

As well as the installation of a new supply, we were also tasked with taking care of the existing gas connection.

Tottenham made the decision to simultaneously demolish the old stadium, as it was building the new. This meant when the old West Stand was knocked down, Stark Works were asked to temporarily re-route the existing gas to the still-standing half of the stadium before disconnection when White Hart Lane was reduced to rubble.

Simple enough in theory, but in practice, it meant diverting the supply down a side road, excavating the ground whilst negotiating parking suspensions and traffic flow, all with minimum disruption to the public over two weeks.

With the stadium now open, we're still on hand to offer advice and assistance, in keeping with our ethos of always providing exemplary customer service and absolute professionalism in all the work we do.

To discuss your gas and electricity
infrastructure needs, contact one
of the team at

enquiries@stark.co.uk