

## Heathrow

*“Design, supply and build to facilitate the innovative photograph monitoring system”*



Installation of the monitoring system

DIGITAL RAILWAY  
PANTOGRAPH  
MONITORING



JULY – SEP 2018

VALUE  
£200k

HEATHROW



## DESIGN AND INSTALLATION

**P**TL were engaged by Heathrow Airport Limited at conceptual design stage to assist Camlin Rail in delivering a custom structure on which to fix their smart pantograph monitoring system.

Due to the existing infrastructure and its structures a standard column could not be utilised so a number of options were to be explored. During this early stage it was requested that PTL carry out various structural and investigative surveys to ascertain a location for the pantobot column. With the information collated, and no viable location for a column to be installed trackside it was determined that the best solution would be to fix the pantobot to an existing bridge structure.

With a location agreed, PTL, working collaboratively with the client, engaged designers to carry both a concept and detailed design with a number of options to consider. PTL, utilising their incumbent knowledge of Heathrow Airport Limited's



**High resolution photography allowing automated measurement and analysis**

key stakeholders, assisted the designer in carrying out internal design reviews to agree the best solution for the project. The overall duration of the above

process took approximately 3 months, however, ensured that the pantograph was installed on time, to budget and in the most efficient way possible.