

PROJECT PROFILE: Kent CP5 750V DC Switchgear Renewals – Petts Wood

PROJECT SPECIFICATIONS

Status:	COMPLETED
Started:	July 2018
Completed:	November 2018
Project Duration:	5 Months
Client:	SIEMENS
Location:	PETTS WOOD – SOUTH EAST LONDON
Discipline:	EARLY ENGAGEMENT DESIGN LOGISTICS, GROUNDWORKS, SCAFFOLDING DESIGN AND ERECTION, SAFE WALKING ROUTES, CABLE ROUTE WORKS.



ABOUT THE PROJECT

In summary, Sunville Rail carried out:

- Early engagement with designers to achieve a build-able design solution.
- Arranged safe access in agreement with local council and liaison with local residents.
- Set up safe access to site with minimal effect on the local woodland including acoustic barriers.
- Set up approved ALO barriers and HV Cable protection.
- Removed minimal vegetation during the excavation and levelling of the site.
- Cast concrete raft foundation, using concrete pumps over a 300m distance.
- Delivered and erected scaffolding for safe working at height.
- Constructed brick built and block structure including all associated buildings works.
- Supplied and installed security doors and louvres.
- Core drilled walls and hand excavated all associated cable ducts and SCT.
- Constructed all safe walking routes.



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PROJECT OVERVIEW

In July 2018 Sunville Rail Limited were contracted as part of an early engagement to liaise with designers and the project team at Siemens to construct a new brick-built DC Track Paralleling Hut including all associated cable, route works and safe access.

The early engagement allowed Sunville Rail's experienced project team to advise on design requirements to enable the works to be completed within extremely tight timescales, with limited access.

This high-profile contract required the installation and commissioning of a new DC switchgear to replace the life-expired existing building and electrical components at Petts Wood, Orpington, Kent.

The redundant T.P. Hut building had been out of service since 2008, when it was struck by lightning and caught alight rendering the equipment within unusable. Sunville Rail liaised with local council and residents to enable safe access via a local housing estate. Works involved excavating the area adjacent to the existing T.P. Hut building to construct a new building to house the new electrical components.

The foundations required the pumping of concrete in excess of 300m with all materials and scaffolding delivered via local footpaths and woodland. The project was critical to the introduction of the new December 2018 timetable change for the TOC.



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