

## Groundworks Project Example – Replacing Combined Drainage System, Ripon Racecourse

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This popular racecourse was served by an existing combined drainage system which had been added to and extended at various stages over the years. The resulting drainage system was poorly performing.

After undertaking a detailed and extensive camera survey, the system was re-designed in order to separate the surface water and foul systems and to provide them with appropriate discharge points.

The split drainage system provided a discharge point for surface water into an adjacent river and an appropriate discharge consent was obtained for this. The new foul system discharged via macerators to a series of holdings tanks from where sewage was pumped via a rising main for onward discharge to a treatment works.

The works affected all areas of the race course, from the busy public areas around the enclosure and paddock, to the outfield and included crossings of the track to connect to the off-site discharge points. The works were undertaken during winter months and with a very tight completion date, to minimise disruption to the racing calendar. Not only was the completion of the works time-critical, quality was also essential given that not only were public areas of the racecourse affected, so too were the areas in which the valuable race horses were prepared, paraded and raced.

The works were completed on programme and the course owners and operators are very pleased with the results.

