

## A590 Drainage Repairs, A590 Nr. Barrow



The repairs were to carrier and filter drains, in small sections as well as long runs between manholes.



Drains at the top of batters, in surrounding fields and other small drains were repaired where necessary.



Working in made-up ground meant trench support was needed for a lot of the excavations.



A finished section of filter drain. Sub-base was used to trim the edge next to the carriageway.



Another finished filter drain. This was one of a number of field and top batter drains repaired or replaced



A section of crash barrier that has been replaced.

Client: EM Highway Services	Value: £750,000
Location: A590, Nr. Barrow in Furness	Duration: 16 Weeks

### Project information

The aim of this project was to repair and replace the existing drains on a long section of the A590 nr Barrow.

The repairs were done to varying lengths of drains, based on the surveys done by the client, and the schedule they had produced. The sections were either taken out and each end connected with a band seal, or done in full runs between two manholes. Any extra repairs that were discovered were fixed at the same time. Some sections of drain were repaired by slip-lining where they crossed under the carriageway (by a subcontractor). The drains were CCTV surveyed at the end to ensure they were clear.

The filter drain stone was renewed at the same time. The existing dirty stone was excavated and taken to be washed and recycled. New stone was then imported to top up the drains.

Subcontractors were employed to repair and replace sections of crash barrier as part of the contract.