

# LANES IN ACTION

Road construction drainage support



## Project challenge

Lanes Group plc supported Highways England's main contractor, Costain, in the development of a new 4.5-mile section of the A556 trunk road between Knutsford and Bowdon.

The £192 million road runs from Junction 19 of the M6 to Junction 7 of the M56, and will allow the current section of road it replaces to be de-trunked.

A key challenge for such a large and long-running project was to coordinate our work with other contractors, and to operate at times that minimised the impact of construction work on road users and residents.

## Client benefits

- Service supplied by drainage engineers experienced at working on large and complex transport projects
- Industry-leading safety standards – Lanes Group holds the RoSPA Gold Medal for occupational health and safety
- The largest and most modern fleet of specialist drainage vehicles, including recycler jet vac tankers, enhancing productivity and sustainability
- Full HADDMS data capture.

## Client comment

"Lanes Group has been supporting us very well, ensuring they are on site, with the right assets and expertise just when it's needed. This is important to keep a large project like this on track."

Paul Sprague, Site Agent  
Costain



Client:  
Costain

Sector:  
Highways

Location:  
Cheshire

**Call 24/7**  
**0800 526 488**

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Lanes Group plc is a national wastewater and drainage solutions provider. We sit at the heart of the drainage industry in the UK and Ireland. We are serious about delivering excellence in service, safety and innovation.

The company has a network of 32 depots and strategic utility hubs, providing high quality utility, drainage, and maintenance services for commercial, public sector and domestic customers.

Our key market sectors include water utilities, construction, energy, rail, highways, insurance and commercial maintenance.

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## LANES IN ACTION

### The project

In the first phase of the project, Lanes carried out extensive CCTV drainage surveys of the existing drainage system along the route. This gave Costain the data needed to ensure drainage linkages were designed optimally.

During the main construction phase, our engineers carried out CCTV drainage surveys of 30km of new highway surface water drainage pipes. We also used jetting and vacuumation tankers to desilt current highway drainage pipes, and new ones.

On one occasion, nine jet vac tankers were deployed at the same time to support works as the statutory undertaker, United Utilities, diverted a clean water main.

The machines were needed to ensure there was enough capacity to tanker away water while the work was carried out.

### Greater productivity

Lanes regularly deployed recycler jet vac tankers on the project. Unlike standard jet vac tankers, recyclers can filter their water, allowing them to stay on station for longer periods, increasing productivity and sustainability.

On several occasions a tracked Terrajet remote jetting hose reel unit was used to access hard-to-reach manholes and drain lines, away from hard stand areas or roads.

### From major bottleneck

The A556 is a main route off the M6 to south Manchester and Manchester Airport. It carries 51,500 vehicles a day, 11% of them HGVs. The bottleneck, one of the worst in the UK, increased:

- Risk of accidents
- Congestion
- Journey times and delays
- Life-threatening pollution.

### To quiet B road

The new road is due to open in March 2017.

We will support Costain as it de-trunks the old four-lane single-track road and dual-carriageway, turning it into a B road. It will do this by:

- Narrowing the road to two lanes
- Blocking the M6 end, creating a cul-de-sac
- Installing a cycle path and horse-riding track
- Creating new wildlife areas



Front cover – Route of the new section of road. This page – 1. Optimising connections between new and current drainage systems was a key objective; 2. Construction under way.



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