

CASE STUDY
ONE STOP ROAD RENEWAL
Tarmac/Knowsley Council



Situated on the borders of Knowsley Council, Cartbridge Lane is a busy road that is used as a route through a new housing estate. With more developments due to start in the area it was imperative to get the work complete efficiently and as quickly as possible.

Objective & Challenges

The key objective was to remove all existing road markings and replace with new as well as adding the renowned TexBand seal and road studs. The main challenge was to make sure that we could achieve completion in the shortest possible time frame, whilst causing the least amount of disruption to the local travelling community. The damp conditions due to the time of year and leaves would be an obstacle; however, we could use new road drying technology to overcome these factors.



Scope of Works

At L&R Roadlines we pride ourselves in strategic flexibility so that we can keep our clients needs and priorities at the forefront of our programming. We received a phone call from Knowsley Council/Tarmac, week starting 03.12.18, explaining the needs of the project. The challenge was then given by Tarmac/Knowsley to complete the works before Christmas in the safest and most efficient way possible. We immediately sent a local supervisor to assess and scope the site before we visited the Tarmac/Knowsley offices to discuss the best options after our assessment had taken place.

The decision was made to provide our “Local one stop solution”. As members of Hitex International Group, L&R Roadlines can

pool experience, knowledge and resources to provide everything required for a project. From one dedicated depot were able to supply a multi skilled workforce and the highest quality materials to remove and install - all in one shift. Having a locally based workforce and depot enables the most reactive service possible, whilst utilising our local workforce makes sure the sense of pride and benefits to the local area shine through.

The decision was then made to book the works in for the following week, week starting 10.12.18.



Above | Images of the smaller developing road surface cracks that TexBand would be used to prevent further deterioration as well as some of the larger surface cracks that would be repaired using TexBand.



Above | More images of the task in hand to repair surface cracks and large potholes up to 70mm deep and nearly 1m diameter.

During Works

The client provided a safe working area as a road closure and a road sweeper to clear the leaves, then working a standard 9.30-3.30 closure we provided all necessary roadmarking vehicles to complete the works:

- 1 x Extrusion Machine
- 1 x Specialist surfacing TexBand unit
- 1 x Screed unit
- 1 x Road stud unit

Alongside this we provided a specialist drying unit to ensure the works were completed in the most efficient way possible, this was all backed up with an on-site supervisor, to make sure the works ran as smoothly as possible.

The whole project was a complete team effort. L&R Roadlines worked closely with Ray Mullen/ James Taylor and all associated members of the Tarmac /Knowsley team to help deliver the scheme from start to finish, from the initial phone call to booking road space and total completion within 4 working days, proving collaboration and locality is the key to an informed and efficient working relationship. This collaborative team ethos is key to all L&R Roadlines client relationships.



Above | Our specialist drying unit in action so that not even the wet conditions could stop the fresh road markings going down.

The overall plan, as set out from our initial site assessment was as follows, using three/four crews to complete the works in the fastest time possible:

1. All works to 'flow' from the Church Road end of Cartbridge Lane towards the Greenbridge Lane end to keep a constant, time efficient flow to the work.
2. Crew one to move along the road removing debris by hand and with a brush as well as using a HCA Lance to remove all dirt, loose materials.
3. Crew two to remove all road studs.
4. Crew three, the **TexBand** crew, to move along the road filling the bigger voids, potholes seams and cracks with a first pass of **TexBand**. The **TexBand** in the larger potholes could then cure and self level whilst work flowed onwards to other areas.
5. The site supervisor then led lining crews on the specialist drying unit drying the way forward down the centre lines before returning up the edge lines.
6. A lining crew then followed the dried road installing the fresh new roadlines.
7. The **TexBand** crew, when the Greenbridge Lane end was reached would return back to the Church Road end to put in the final pass of the **TexBand**.
8. The finishing touch was then applied of fresh new road studs.



Above | Preparing the road surface with a HCA Lance



Above | A one pass screed application of TexBand over a large surface crack



Above | A large surface crack around a bend freshly repaired with TexBand



Above | A pothole being filled and left to cure before the final pass

The Outcome

We completed the Cartbridge Lane area in a single six-hour shift, even including the road marking. The end result was site being safer for pedestrians and traffic with minimum disruption to the road and its residents. Collaborative working enabled our 'one stop' services to be provided to allow efficient working, savings, smart programming and reduction in network occupation.

A few facts and details as to what the project took to complete:

- 1 x Extrusion unit and designated feeder
- 1 x Specialist stud unit
- 1 x Specialist surfacing unit
- 1 x Screed unit

Project Images



Above | L&R Roadlines crew in action installing centre lines.



Above | Final pass of TexBand over a large pothole



Above | A completed stretch of Cartridge Road with fresh lines, studs and TexBand repairs.

“L&R Roadlines has demonstrated an enthusiastic approach to working closely in partnership with our technical teams to provide advice and guidance on the most appropriate solutions for a safe, prompt delivery.”

Brian Murphy



ON THE ROAD TO A BRIGHTER FUTURE



Formed from humble beginnings in 1972 Liverpool, we have organically evolved over 50 years to become one of the UK's leading and most respected specialists in all forms of road marking, specialist surfacing and associated bespoke innovative solutions. Our highly trained, motivated and experienced team of specialists are here to help deliver and create the most efficient and safest solutions for our clients' needs. We offer innovative new methods, products and equipment, ensuring we always find the best design, best solution and best outcome for all our projects. All our works are self-delivered from our purpose-built head office in Ellesmere Port and our satellite depot in Sandbach. Our services are carried out by our multi skilled and highly accredited workforce. The future is even brighter, in 2021 we became part of the SWARCO Group, further enhancing our vast wealth of knowledge and resources within the road marking industry.