



# WeldingWorld

## Innovative road studs set to be used at road junction

Intelligent road studs, which light up in response to changing traffic lights, are to be used for the first time at a motorway junction to improve safety.

Highways England is installing around 170 of the innovative LED road studs at one of England's busiest motorway junctions – used by over 90,000 vehicles every day.

The intelligent road studs are being introduced as part of a £3 million project to improve journeys and safety at Switch Island in Merseyside, where the M57, M58 and 3 A roads all join together.

The LED road studs light up when traffic lights turn green so drivers can clearly see which lane they should follow. Cables under the road surface connect them to traffic lights through a nearby automatic controller unit.

The studs can be visible up to 1,000 metres away – far greater than traditional reflective road studs – and have been proven to help stop drivers drifting between lanes, reducing the risk of collisions.

Highways England has already installed the LED studs at Hindhead Tunnel in Surrey to guide drivers through the tunnel but the Switch Island scheme will be the first time they have been linked to traffic lights at a motorway junction.

Phil Tyrrell, Project Manager at Highways England, said:

“We're always looking for new ways to further improve journeys and safety for drivers, and I hope the new intelligent road studs will help better guide drivers around Switch Island.

“The innovative light-up road studs along with the other improvements we're introducing will make it much easier to navigate the junction, benefitting the tens of thousands of drivers who travel through it every day.”

Construction work on the Switch Island scheme, which is being funded by the government's £220 million congestion relief programme, started on Monday 5 February and is expected to take around a year to complete.

The scheme is designed to improve the flow of traffic and enhance safety, following 49 collisions at the junction in the past two years – an average of one every fortnight. New traffic lights will be installed at a height of over 5 metres – higher than HGVs and double-decker buses – so that drivers approaching the junction can clearly see when the lights are changing.

Other improvements will include changes to the road layout and lane markings, new barriers between carriageways, coloured high friction surfaces and better signs. And a new 400 metre shared cycle path will be created through the junction, which will link up with the existing cycle path alongside the A5036 Dunnings Bridge Road.

Jerry McConkey, Sefton Council's Transportation and Highway Infrastructure Service Manager, said:

“We have worked closely with Highways England and Merseyside Police to look at the issues at Switch Island and develop improvement proposals.

“As a result, we are delighted that these important safety measures are about to be introduced with Highways England implementing the latest technology solutions. This will further improve safety and give drivers a much higher level of confidence when negotiating this busy junction.

“The new intelligent road studs which are being installed at Switch Island were designed by Oxfordshire-based company Clearview Intelligence.”

Managing Director Nick Lanigan said:

“The introduction of intelligent road studs, reacting to traffic light changes on a busy roundabout is a continuation of the traditional road studs legacy but takes advantage of new technology available. The new studs have been proven to reduce lane transgression by over 50% in certain conditions so it's a great way to help improve the safety for all road users.”