



Digital diversion signs reduce site inspections and deliver customer confidence

Digitally enhanced diversion signs, used for the first time in Scotland have reduced the number of arbitrary site inspections required on a road closure, secured the integrity of the closure and delivered a diversion route that road users can have confidence in.

The new Intelliframe[®] system, which was developed by Highway Resource Solutions (HRS), was used by Class One TM on a works scheme on behalf of GTC.

The Challenge

GTC approached Class One TM to provide a road closure for a 6-week period. The closure area is in an area with heavy pedestrian footfall with high levels of vandalism. The risk of signs being moved or vandalised was significant which could cause confusion for road users and bring harm to pedestrians.

The client wanted to minimise the number of site maintenance visits required during these works while ensuring the integrity of the closure and the safety of its workers, road users and local residents.

Our Solution

Class One TM worked with HRS to install Intelliframes[®] to a road closure and diversion route to support the delivery of a gas supply to a new housing development.

Intelliframe[®] is a new and innovative way of digitally monitoring and managing street works. It is a simple road sign which has been fitted with GPS technology which can provide a range of real-time information depending on customer needs.

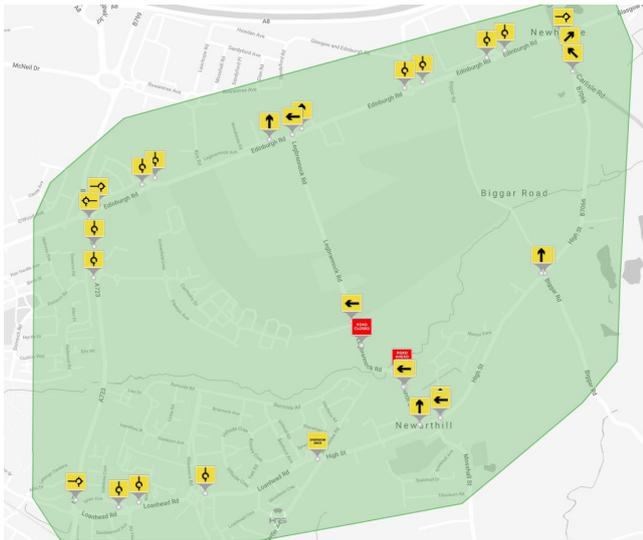
On this project, Intelliframes[®] were used to remove the need for site maintenance audits, improve road user safety, reduce the number of lost or forgotten signs and increase customer confidence in the diversion route signage.





Gas Transportation Company (GTC) Motherwell Utilities

The road closure was supported by a diversion route with 36 Intelliframes®, positioned at strategic locations.



The Intelliframes® were monitored remotely for the duration of the diversion with alerts sent to Class One TMOs when signs had fallen or been moved. As a result:

- △ Maintenance crews were only deployed when signs were down. This removed the need for arbitrary site audits and improved operational efficiency
- △ Crews were deployed as soon as an alert was raised and the affected Intelliframe® was reinstated immediately. This ensured that the integrity of diversion route was maintained. Road users were not negatively impacted by fallen or moved signs
- △ The risk of injury to pedestrians from fallen signs was reduced. The Intelliframe® alerts ensured that any signs which had fallen or been deliberately moved into pedestrian areas were removed and repositioned immediately
- △ The use of Intelliframes® delivered a positive environmental impact. With less site maintenance checks required, there were less journeys required and ultimately less CO₂ emissions



“This is the first time the Intelliframe® system has been used in Scotland and I have to say, it is a fantastic piece of kit. To only have to do site maintenance inspection if something has gone wrong in the diversion route is so efficient from an operational perspective. I can really see these signs becoming standard practice in Scotland in the future.”

John Paul Stobo,
Contracts Manager, Class One TM

“I’m highly delighted with the new Intelliframe® signs being used on the Legbrannock Road diversion route. With notifications coming direct to yourselves, it has minimised the need for site checks, making things more cost effective from our end and I’m sure saving on time for you guys.”

Gordon McMillan, Project Manager GTC