



Construction and Maintenance Health, Safety and Wellbeing Briefing

January 2019



Spotlight on Innovation

The following two best practice notifications have been issued in the period for Excellence/ Innovation in Health and Safety:-

The Innovation

On the M4 SMP Balfour Beatty/VINCI JV project, an automated drilling rig has been developed and trialled in conjunction with specialist supplier ASSET International. The drilling rig is lifted from the wagon by use of a specially designed davit arm and placed onto the top of the barrier. Once installed the drilling rig then runs along the top of the barrier to each securing position, and completes the drilling/anchoring of the barrier, no further lifting is required until all works are complete.



The Benefits

The benefits include:-

- Elimination of vibration to the workforce
- Reduction of exposure to noise and dust due to positioning of the operator and provision of local exhaust ventilation.
- Elimination of manual handling
- Reduced risks associated with lifting and increased control as this is via a specifically designed davit arm
- Shorter installation times, resulting in reduced disruption to the travelling public
- Reduction of time on site reducing numbers of workers at risk and disruption to the travelling public through 100% Improved productivity.

The Innovation

Through the early stages of the M6 J13-15 scheme, Kier Highways considered several different options for off-site manufacture, one of the projects developed was the use of a Precast Concrete AquaSlot Drain. Having taken lessons learnt with risk, quality and programme constraints associated with the in-situ casting of drains, the objectives of the task were to improve certainty of programme outputs and reduce congestion and vehicle throughput in already constrained areas of site.

Whilst reviewing available options, a meeting at Highways UK in 2017 led Kier and Stanton Bonna to agree to develop the casting of a product in Derbyshire, UK. Further dialogue established that the teams could work collaboratively to develop a system that would suit the requirements of mass production for Smart Motorway schemes.

The Benefits

The benefits include:-

- ✓ By using precast, the units can be laid out in advance and laying can commence as soon as a sufficient formation bed is prepared. Laying can continue in most weather conditions
- ✓ Rapid installation achieving outputs in excess of 100m per day per three-person gang
- ✓ Factory made units are high quality to tight tolerances
- ✓ Sump unit and incorporated ironwork means that once the unit is laid there is virtually no other follow up work required
- ✓ Reduced waste as this method removes the need for any wet casting or cutting out to form outlets
- ✓ Reduced workforce around the operation minimising People Plant Interface
- ✓ Ability to change work fronts with minimal impact if blockers are identified or there are unforeseen issues, this provides greater flexibility
- ✓ No need for saw cuts as the product naturally features joints minimising HAVS issues



Feedback from the project team

'The team has carried out trial laying in the compound to refine the installation methodology prior to working on the network. In the first weeks of laying, outputs are better than expected and we are very pleased with the product. Any reduction in trades and numbers in what is a very constrained environment has to be seen as a positive''

Focus for February – The Hub Safety Campaign

Safe Loading and Unloading

The focus for February will be on Safe Loading and Unloading for which resources are currently being collated and will be available soon on <http://www.highwayssafetyhub.com/>

Loading and unloading is an activity that has caused many incidents resulting in serious injury and damage. Therefore we need to ensure that all those authorised to undertake the task have the training, knowledge and understanding to prevent similar incidents.

Balfour Beatty working in collaboration with a specialist plant supplier held a number of national stand-downs to convey lessons learnt and identify loading and unloading issues on Smart Motorway Projects. An industry changing process in the form of Loadmaster training has been implemented to prevent recurrence and has been launched to industry and is awaiting CITB accreditation for national adoption by all contractors.

Spotlight on Innovation

SafeStart19 – Talking Tomorrows Safety Today

SafeStart19 will take place on 14th February 2019 at Stoneleigh Park, Warwickshire. The Event incorporates, safety training, safety demonstrations, inspirational key note speakers and exhibitors showcasing the latest products and services in safety and innovation. The primary focus is a safety event centered around our passionate belief of “Everyone home safe every day”.

Since its inauguration in 2014,

SafeStart has continued to grow and develop providing a unique platform for anyone working in the railway and highway sector to improve their knowledge and discover the latest innovations in safety alongside business networking opportunities.

Since its inauguration in 2014, SAFESTART has continued to grow and develop with each year being bigger and better than the last. The prime objective of SAFESTART is to deliver a clear and coherent safety message across the railway and highway industry by providing a focused platform for the industry to get together and begin the year with safety at the forefront to undertaking work on the transport network.

SafeStart19 is supported by: Costain, Morgan Sindall, ORR, Rail Alliance, Track Safety Alliance, Rail Safety Week and Rail Forum Midlands.

For visitor and exhibitor information visit www.safestart.events or email: liesa.coates@in2global.com



Traffex 2-4 April 2019, at the NEC, Birmingham is the UK's largest and most established exhibition for all those involved in the highways and traffic engineering sector.

With hundreds of experts and trade associations all under one roof, the exhibition provides the perfect opportunity to do business with a wide range of suppliers, ask questions, and network with peers from across the globe.

Register at:

<https://registration.n200.com/survey/210c6jhd5c0yq>

and identify loading and unloading issues on Smart Motorway Projects. An industry changing process in the form of Loadmaster training has been implemented to prevent recurrence and has been launched to industry and is awaiting CITB accreditation for national adoption by all contractors.

Highways England Safety Alerts issued since the last briefing:-

- Hei 068 11kv Overhead Cable Strike
- Hei 067 Broken Gantry Hatch
- Hei 066 MEWP Boom Failure

These and previous alerts are available through the following link:<http://www.highwayssafetyhub.com/alerts.html>

SH L!ve

SH L!ve will take place at the iconic Silverstone racing circuit on 11th September 2019 and will present a unique opportunity for delegates to not only hear about, but also see, and experience what our peers are doing to innovate with the common goal of keeping those who work and travel on our roads safe and well. What **SH L!ve** strives to do is showcase what our colleagues are doing in the fields of health, safety and well-being through our renowned industry-leading speakers, as part of a groundbreaking conference, innovation trails showcasing best practice and live demonstrations from thought leaders of products and services which can affect a better, safer working environment. Our members, many of whom are exhibiting have undertaken to share the most innovative products, services and engagement tools without commercial prejudice for the benefit of the industry as a whole.

Find out more and register at : www.shlive.co.uk

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Highways UK 6/7 November 2019, NEC, Birmingham is not a trade show but is positioned to be the thought leadership destination for UK road infrastructure development. It attracts a uniquely high level and large number of delegates from client bodies (especially Highways England, regional transport bodies and local authorities) and their upstream supply chain members, particularly contractors and civil engineering consultants.

Highways UK
ROADS FOR A MODERN BRITAIN

Update from the HUB Meeting

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Update from the HUB Meeting

The HUB members are continuing to work on improvements to communication and engagement within and across our community. Current areas of focus include

- Creation of a 12-month health, safety and wellbeing topic calendar to align supply chain partners campaigns – a copy of the calendar will be available in the next edition of the newsletter
- Work is underway on refreshing the Raise the Bar document template and how information is presented. A new template has been produced and it is currently being used in a trial for one of the Raise the Bar updates – watch this space for further news.
- We are utilising the Supply Chain Portal to allow members of the HUB community to access information and share documentation.

■ A refresh of the HUB Champions has been undertaken to provide support to the Raise the Bar review process. We now have additional supply chain members taking part in the reviews.

■ Whilst discussing the review process, we have identified the following Raise the Bar documents to be reviewed within the next 6 months

- Underground Services (9) and Overhead Services & Structures (7)
- Plant Person Interface (3)
- Excavation Protection (13)
- Supervision (29)
- Finally, we have a new email address if you have any questions, comments or suggestions regarding the Supply Chain HUB highwayssafetyhub@highwaysengland.co.uk

The Hub Newsletter contains updates and advice for our supply chain. The newsletter is written by supply chain partners to share health and safety best practice, any advice is provided as guidance.

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