

Introduction

This note provides an update to Progress Update No 17, dated 1st October 2019.

Construction of Burnshot Bridge

Construction of the bridge continues to progress well and is still on programme for opening in Spring 2020.

Since the last update, the most significant construction milestone reached was the installation of the precast concrete beams. Following a short delay due to an airport crane permit, these were successfully installed over the weekend 8th to 10th November. 17 beams, each 33m long and weighing up to 60t (the weight of 10 African bush elephants!) were lifted into place using a 750t crane. After landing, the first beam was slid sideways, underneath the suspended service ducts, using a specially designed jacking arrangement.

After the beams were installed, formwork and then the stainless deck reinforcement was placed. The deck thickness varies between 200mm and 281mm thick to provide an appropriate camber for drainage. In the meantime, the service ducts (Virgin Media and Vodafone fibre optics, and Scottish Power Low Voltage) which were supported by the temporary service bridge were diverted onto the new permanent structure and the temporary bridge was removed.

On 25th November we were delighted to welcome local resident, Les, to visit site. Les is blind and was unable to experience the virtual reality and digital 3D models. Engineering consultants Arcadis kindly 3D printed a 1:200 scale model of the structure, free of charge. Engineer Cillín Farrell presented the model to Les, explaining the construction sequence of the structure using his model, piece-by-piece. The project team continues to engage with the community, with school events and further drop-in events planned in the coming months.

Progress Photos



Transporters are escorted by Police en-route to site



Beams delivered to site



First beam being lifted into position



Beams in place



Bridge deck prior to placing reinforcement bars



Formwork and edge protection in place

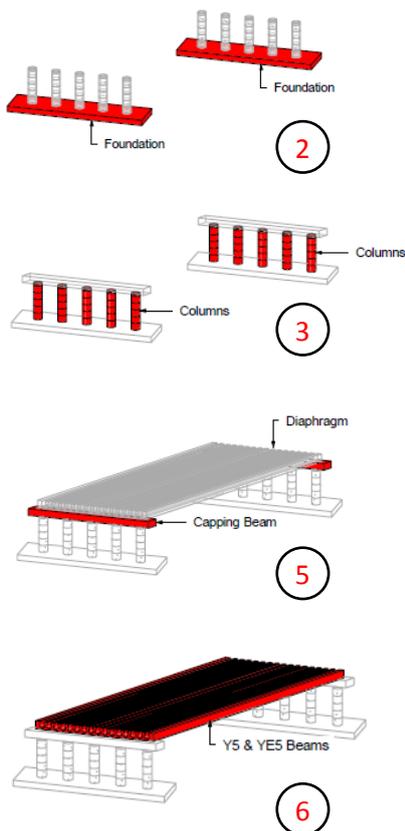


All deck reinforcement completed, ready for pour 07/01



Les's visit to site to experience the 3D printed model

Programme



1. Demolition of existing foundations ✓
2. New concrete foundation bases ✓
3. Columns ✓
4. Reinforced Soil abutments built around columns
5. Capping beams ✓
6. Pre-cast concrete beams ✓
7. Concrete bridge deck
8. Divert utilities and remove temporary bridge ✓
9. Bridge finishes including parapets and safety fences
10. Bridge deck waterproofing and surfacing
11. Roadworks and tie-ins, including kerbs, drainage, signs and white lining
12. Bridge open to traffic (Spring 2020)
13. Landscaping and Environmental
14. Handover

