

### Roads Capital office – Bansha pavement improvement scheme

#### Project Details:

Approximately  
1.7km of pavement  
strengthening,  
2230 tonne of  
Binder Course,  
9800 m<sup>2</sup> of SMA  
surface course,  
7300m<sup>2</sup> of HRA  
surface course,  
380m<sup>2</sup> of new  
footpaths,  
replacement of  
gullies, covers.



Bansha Village August 2018



Bansha Village April 2019

**Approx. Cost:**  
€700,000

#### **Brief Description**

Bansha Village is located on the N24 National Route located between Cahir and Tipperary Town. Traffic volumes of approximately 7,000 vehicles per day pass through the village. Approximately 6% of these are heavy goods vehicles. The Waterford to Limerick Railway line crosses the N24 to the east of the village.

#### **The Studies**

Visual surveys indicated that, apart from the centre of the village, the existing pavement was suffering structural failure. Serious rutting and surface deformation was plainly evident. Surveys indicated that a pavement repair of up to 200mm was required on sections of the road. The scheme extended from the Speed Gateway at the East of Bansha, to a point 0.7km past the western Speed Gateway.

#### **The Issues**

The main issue to be dealt with was the strengthening of the pavement whilst maintaining the flow of traffic on the N24. There are no short local diversions that could be used to allow the N24 to be closed for the Works to be carried out. Therefore traffic management was a key factor in the execution of the Works. Traffic Management was planned and carried out by the contractor, Roadstone Ltd. The Works comprised cold milling of the existing pavement, replacement with SMA surfacing between the Gateway limits, and a new HRA surfacing on the western approach. As the scheme included a resurfacing over the railway bridge, liaison was required with Iarnrod Eireann, who provided trackmen during that section of the Works. In addition a Special Speed Limit of 50kph was obtained for the section of the N24 on the western approach to the village.

#### **The Process**

Tipperary County Council prepared a Pavement Asset Repair and Renewal (PARR) proposal for submission to Transport Infrastructure Ireland (TII) in September 2018 which outlined the scope and extent of the scheme along with a preliminary estimate of costs. This received approval from TII and the preparation of detailed design and contract documents commenced. These documents were prepared in-house by Tipperary County Council. The scheme was procured using the annual Schedule of Rates Tender. Roadstone Ltd was awarded the contract and commenced Works on January 7<sup>th</sup> 2019. The Works were carried out using a shuttle traffic management system which minimised delays to traffic on the N24. The Works proceeded through to completion in April 2019.