# ITS Group Environment, Transport and Economy Department Hampshire County Council

Fareham Local Plan
Local Junction Modelling Report

# **CONTROL SHEET**

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Hampshire Services has prepared this report in accordance with the instructions of the above named client for their sole and specific use. Any third parties who may use the information contained herein do so at their own risk.

This report examines these five junctions and investigates mitigation measures to offset the Local Plan traffic. The report also includes details of walking and cycling at these locations with reference to Fareham's emerging Local Cycling and Walking Infrastructure Plan (LCWIP). This will help ensure that the design of any potential junction schemes takes account of the needs of all users.

### Traffic data

The traffic data (projected flows) was obtained from the Strategic Regional Transport Model (SRTM). Two sets of data were provided. Baseline flow data (without Local Plan traffic) and Do Minimum (DM) flow data (with Local Plan traffic). These sets of flows have been used in local junction modelling in this report.

The model year for both data sets is 2036 which was the end date for the Plan at the point that the modelling was commissioned. The end date for the Plan has subsequently been amended to 2037. The modelling is still considered robust for the purpose of assessing the proposed development, particularly as projected housing numbers are now lower than those modelled.

### **Junctions**

The filtered list of junctions identified four significant and one severe impact with the Local Plan (DM) 2036 flows applied. These have been assessed in greater detail with local junction modelling. The findings from the local modelling have been used to determine the mitigation measures required at the junctions with the aim to produce nil detriment to the junction's capacity performance.

The five junctions are as follows:

Junction number in SRTM	Junction name	Junction arm where capacity is exceeded	Severity
80	Parkway/Leafy Lane	Leafy Lane	Severe
6	A27 The Avenue/Redlands Lane/Gudge Heath Lane	A27 The Avenue (W)	Significant
17	Warsash Road/Abshot Road	Warsash Road (W)	Significant
26	Delme Roundabout	A27 Cams Hill	Significant
46	A27 The Avenue/Bishopsfield Road	Bishopsfield Road	Significant

The junctions have been modelled using industry standard software. Junctions9 software has been used for modelling roundabouts and priority junctions; specifically, the Arcady module for roundabouts and Picady module for priority junctions. The traffic signal junctions have been modelled using Linsig3 software.