

Appendix 1: Congestion Schemes

Location	Detail
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Section 1: Worcester NPIF Schemes

A449 Croft Road, Worcester	The removal of the zebra crossing with replacement of a push button controlled crossing facility, along with the re-design of the entrance into The Hive car park. This has led to vastly improved and less frequently hindered traffic flow in and out of the City.
City Walls Road/Sidbury/Commandery Road, Worcester	The replacement of the 40 year+ old signalised junction with modern intelligent MOVA technology, along with a new controlled crossing at Commandery Road and enhancements to the footways and carriageways. These changes have made this A38/A44 cross section far more efficient for the driving and pedestrian public using it.
St John's, Worcester	By upgrading the signal infrastructure, integrating a new crossing facility and widening substandard width carriageways with pinchpoints, we have been able to improve journey times along the western corridor in and out of the City.
Dolday/The Butts, Worcester (signals near to the Crowngate depot exit)	The introduction of new MOVA signal technology, and additional camera detectors facing the depot, have improved bus journey times/reduced delays as well as the flow through the junction itself.

Section 2: Bromsgrove NPIF Schemes

Worcester Road/Hanover Street, Bromsgrove	The removal of the zebra crossing and introduction of a controlled signalised toucan has successfully been introduced. This manages the high flows of pedestrian traffic (due to its close proximity to several schools) which previously hindered the free flow of vehicles along this route. The toucan crossing now provides all users with a more balanced and controlled facility, leading to an improved, fluid journey time which assists in reducing emissions at this junction and along the corridor which is part of an Air Quality Management Area.
A448 Kidderminster Road (Sanders Park), Bromsgrove	Widening of pavements for cycle/pedestrian activity, the introduction of an improved toucan crossing, drainage solutions connecting with the Sanders Park links. This has improved cycling connectivity to and from the Town.
A448 Market Street, Bromsgrove	The introduction of an upgraded toucan crossing facility between ASDA and the Town centre/bus depot, along with a widened pedestrian bridge over the brook has helped to link the new enhanced footway/cycleways from the west into this area.

Section 3: Countywide Schemes

Pheasant Street, Worcester	The removal of this zebra crossing has also seen congestion reduction for the City centre, local bus depot etc when it was replaced with a two phase controlled signalised crossing
A44 London Road, Worcester	Ongoing Experimental Traffic Regulation Order (TRO) process to remove obstructive parking that hinders free flow and capacity along the corridor. Similar solutions have also been introduced along the A38 Droitwich Road, Worcester, A448 Kidderminster Road, Bromsgrove and B4084 Pershore Road, Evesham.
A456/B4187 Worcester Road, Hagley	The signalised junction to the south of the Village was not performing well and creating congestion for traffic flowing through the west-east axis. By reconfiguring the kerbed road layout to increase traffic stacking capacity into the Village from the west, and by upgrading the technology, it allowed the main A456 flow to run more efficiently through the junction. This in turn freed up other junctions to either side
A491 Cattle Market, Hagley	By altering the destinations for the inner dual carriageway lane approaching this junction from the west, it has been possible to improve the flow of traffic travelling towards the east (Quinton, Birmingham) as this has eradicated last minute lane changes, and left lane traffic queuing back to block those wishing to travel north (Dudley).
A449/A450 Black Bridge, Torton	An experimental prohibition of right turn from the A450 towards Kidderminster is currently taking place which has brought significant journey time benefits to the A449 corridor flow and will be made permanent in June 2022.
A449 Malvern Link to Great Malvern	As well as the TRO process to remove existing and potential obstructive parking that hindered free flow and capacity, we have also combined Section106 monies to enhance the corridor's signal infrastructure to improve journey times.

Section 4: Possible S106 Funding Opportunities

A44 Redhill roundabout, Worcester	Funds are available to investigate the improvement of this non- island to improve the A44 corridor traffic flow.
A44/A4440 Swinesherd roundabout, Worcester	Improvements to the flow at this island and associated sustainable mode improvements are possible. Could be inked to A44 Redhill to achieve a greater solution.
A442/A4440 Eastern Orbital, Worcester	Improvements to the island and A442 eastbound approach are being considered.
A448 Kidderminster Road/St John's Street, Bromsgrove	Monies are available for possible network improvements to this location.
A4440 Grange Way/Newtown Road/Pershire Lane, Worcester	Link to existing contributions.
A4440 Rushwick Roundabout, Worcester	Work has started on design but is now in abeyance, awaiting new developments in the area that will bring Section 106 monies to fund the improvement.
A4440/A4103 Hereford Road, Worcester	Pending confirmation of development details