

## Longbridge Lane / Groveley Lane / Cofton Road Junction

### Option Analysis

As part of the Longbridge Connectivity Local Growth Fund works package, two options for the Longbridge Lane / Groveley Lane / Cofton Road Junction are presented for consultation.

We wish to seek the views of the community and users of the junction on the following two options:

Option A – Replacement of the existing roundabout with traffic signals. All approaches to the traffic signal junction (and exits) to be widened to two lanes.

Option B – Replacement of the existing roundabout with traffic signals. The Longbridge Lane approaches to the traffic signal junction (and exits) to be widened to two lanes. The Groveley Lane and Cofton Road approaches (and exits) to remain one lane.

These options have different impacts on managing traffic through the new traffic signal junction and also on existing trees. The impact of the two options with respect to traffic management and trees are given below:

Option	Impact					
	Trees	Approach Road	Traffic			
A	Approximately 24 trees will need to be removed		Approximate Queue Length (number of Cars)			
		AM Peak		PM Peak		
		Option A	Existing Roundabout	Option A	Existing Roundabout	
		Longbridge Lane Westbound	45	200	45	45
		Longbridge Lane Eastbound	25	35	65	100
		Groveley Lane	20	25	35	105
Cofton Road	15	55	30	50		
B	Approximately 10 trees will need to be removed	Approximate Queue Length (number of Cars)				
		AM Peak		PM Peak		
		Option B	Existing Roundabout	Option B	Existing Roundabout	
		Longbridge Lane Westbound	90	200	25	45
		Longbridge Lane Eastbound	20	35	45	100
		Groveley Lane	15	25	15	105
Cofton Road	45	55	25	50		

### Traffic Impact - Option A / Option B Comparison

Approach Road	Approximate Queue Length (number of Cars)					
	AM Peak			PM Peak		
	Option A	Option B	Comment	Option A	Option B	Comment
Longbridge Lane Westbound	45	90	Queue length on Option B is approximately twice queue length on Option A	45	25	Queue length on Option A is approximately twice queue length on Option B
Longbridge Lane Eastbound	25	20	Queue lengths are similar	65	45	Queue length on Option A is approximately 1.5x the queue length on Option B
Groveley Lane	20	15	Queue lengths are similar	35	15	Queue length on Option A is approximately twice queue length on Option B
Cofton Road	15	45	Queue length on Option B is approximately three times the queue length on Option A	30	25	Queue lengths are similar