

## A38 Bromsgrove Route Enhancement Programme - Full Business Case

Table 3.4 – Changes to the hybrid schemes containing highways capacity and active travel improvements included in the FBC stage compared to the OBC stage

Ref.	Scheme location	OBC Description of proposed scheme	FBC Description of proposed scheme (phase 3)	Change from the OBC stage
<b>A</b>	A38 / Hanbury Road	Provide a longer left turn lane on the Eastern A38 approach. Optimisation of signal timings to provide network control.	Provide a longer left turn lane on the Eastern A38 approach, undertaking using white lining and carriageway surfacing, within existing kerb line.	Removal of carriageway widening and new footway construction along Redditch Road. Removal of ramp down to existing playground. Changes to street lighting and traffic signals have been omitted (part of Phase 4).
<b>B</b>	A38 / Buntsford Drive to south of A38 / Charford Road	Provision of two northbound lanes over approximately 100m on approach to Buntsford Drive roundabout, continuing to A38 / Charford Lane approach. Removal of guard railing at Buntsford Drive roundabout. Reconfigured lane markings on approaches and circulatory at A38 / Sherwood Road / Austin Road junction. New toucan crossings over Sherwood Road and A38 North. Development of Active Travel Corridor Link parallel to A38, providing a 3m wide shared footway/cycleway from Buntsford Drive to Charford Road (Scheme C and Scheme 2), as part of a wider cycle strategy for A38 corridor. Pedestrian / Cyclist linkage to Sherwood Road towards Bromsgrove Rail Station.	Provision of an additional northbound traffic lanes from A38/ Sherwood Road/Austin Road Roundabout to A38 / Charford Lane approach. New toucan crossings over Sherwood Road and A38 North. Development of Active Travel Corridor Link parallel to A38, providing a 3m wide shared footway/cycleway from Buntsford Drive Sherwood Road and a segregated pedestrian / cycle route on the east side of the A38 between Sherwood Road to Charford Road (Scheme C and Scheme 2), as part of a wider cycle strategy for A38 corridor. Pedestrian / Cyclist linkage to Sherwood Road towards Bromsgrove Rail Station. Additional provision of an upgraded footway on the west side of A38.	Removal of A38 widening over approximately 100m of highway widening on approach to Buntsford Drive roundabout up to the A38/ Sherwood Road Roundabout (part of Phase 4). Inclusion of acoustic barrier.

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<b>C</b>	A38 / Stoke Road / Charford Road	<p>Widening of the existing narrow 60m long two- lane approach and realignment of Charford Road. Widening of Culvert on Stoke Road to facilitate third lane over structure and realign ahead and right turn movement lane to improve access into the left turn lane to the A38 Southbound.</p> <p>Enhance pedestrian crossing widths across A38 corridor to 5m to support volume of pedestrians crossing over the A38 at grade. Provision of 3m wide footway/cycleway connection to link with Scheme B. Upgrade of uncontrolled crossings of Stoke Road (Upgrade to toucan) and Charford Road (Upgraded to pelican). Widen existing parking bays on Charford Road, to facilitate improved exit lane width from A38. Improved footway connection between A38 North and Warwick Avenue. Provision of on-crossing detection equipment at signals.</p>	<p>Widening of the existing narrow 60m long two-lane approach and realignment of Charford Road. Widening of Culvert on Stoke Road to facilitate third lane over structure and realign ahead and right turn movement lane to improve access into the left turn lane to the A38 Southbound.</p> <p>Enhance pedestrian crossing widths across A38 corridor to 5m to support volume of pedestrians crossing over the A38 at grade. Provision of 4m wide footway/cycleway connection to link with Scheme B. Upgrade of uncontrolled crossings of Stoke Road (Upgrade to toucan) and Charford Road (Upgraded to pelican). Widen existing parking bays on Charford Road, to facilitate improved exit lane width from A38.</p> <p>Improved footway connection between A38 North and Warwick Avenue. Provision of on-crossing detection equipment at signals.</p>	<p>Inclusion of an 81m long 1.5m high gabion basket wall along the Brook Retail Park car park to the south of the scheme.</p> <p>Inclusion of acoustic barrier.</p>
<b>D</b>	A38 / New Road	<p>Provision of additional southbound traffic lane on A38. Realign Northbound A38 corridor to accommodate changes in southbound direction. Provision of an additional ahead lane from New Road West approach, with associated widening of A38 East exit. Provide new staggered pedestrian crossing on New Road West approach and exit in vicinity of Fordhouse Road and Bant Mill Road.</p> <p>Provision of wider crossing widths to</p>	<p>Provision of additional southbound traffic lane on A38. Realign Northbound A38 corridor to accommodate changes in southbound direction. Provision of an additional ahead lane from New Road West approach, with associated widening of A38 East exit. Provide new staggered pedestrian crossing on New Road West approach and exit in vicinity of Fordhouse Road and Bant Mill Road.</p> <p>Provision of wider crossing widths to support any future uplift in pedestrian</p>	<p>Removal of the pedestrian crossing on New Road (west) as it is being incorporated into Scheme 9. Inclusion of acoustic barrier.</p>

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		<p>support any future uplift in pedestrian movements. Provision of on-crossing detection equipment at signals.</p> <p>Reconfiguration of signal timings to accommodate separate phases for New Road East and West.</p>	<p>movements. Provision of on-crossing detection equipment at signals.</p> <p>Reconfiguration of signal timings to accommodate separate phases for New Road East and West.</p>	
E	A38 / A448 (Oakalls Roundabout)	<p>Provision of two additional flare lanes (30 and 85m) on A38 north approach. Provision of a 61m flare lane on A448 East approach. Provision of longer flare lane (100m) on A38 South approach. Provision of 46m flare on A448 West approach. Provision of toucan crossings on A38 South and A448 Stratford Road approaches. Provision of 2 lane exit on A38 South and A448 West. Provision of Pedestrian crossing facilities across A38 North and A448 West arms. Signalisation of both A38 and A448 arms. Provision of cycle connection from A448 West to Regents Park Road, to connect to Schemes 4 and 6). Provision of cycle route from A448 West toucan crossing to A38 North to link to Scheme 7). Provision of MOVA signal control. Revisions to circulatory markings. New footway connection from Scheme 4 on northern side of A448 West to Toucan Crossing by circulatory.</p>	<p>Provision of two additional flare lanes (30 and 85m) on A38 north approach. Provision of a 61m flare lane on A448 East approach.</p> <p>Provision of longer flare lane (100m) on A38 South approach. Provision of 46m flare on A448 West approach. Provision of toucan crossings on A38 South and A448 Stratford Road approaches. Provision of 2 lane exit on A38 South and A448 West.</p> <p>Provision of Pedestrian crossing facilities across A38 North and A448 West arms. Signalisation of both A38 and A448 arms. Provision of cycle connection from A448 West to Regents Park Road, to connect to Schemes 4 and 6). Provision of cycle route from A448 West toucan crossing to A38 North to link to Scheme 7). Provision of MOVA signal control. Provision of an extra exit lane westbound on the A448 Stafford Road. Inclusion of an additional circulatory lane. New footway connection from Scheme 4 on northern side of A448 West to Toucan Crossing by circulatory.</p>	<p>Carriageway widening to allow for the inclusion of an additional circulatory lane and additional</p>

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<b>F</b>	A38 / Birmingham Road to south of M42 Junction 1	<p>Realignment of Birmingham Road junction, to accommodate two southbound lanes through junction, with a 3m wide footway on the eastern side of the A38, narrowing to a minimum of 2m in front of properties in front of dwelling curtilages. Provision of on crossing detection to Birmingham Road signals, and pedestrian crossing near Barnsley Hall Drive. Provision of localised widening of kerb lines to accommodate two lanes southbound from M42 J1 to Birmingham Road.</p> <p>School Lane to be converted to left out only, and car left in only, with associated kerb adjustments.</p> <p>Banning of right turn into School Lane.</p> <p>Consideration of lining and signing scheme on Alcester Road between School Lane and Birmingham Road (Cost excluded for Alcester Road scheme). Conversion of existing 40mph section from south of Birmingham Road to North of M42 J1 to 30mph.</p>	<p>Realignment of Birmingham Road junction, to accommodate two southbound lanes through junction, with a 3m wide footway on the eastern side of the A38, narrowing to a minimum of 2m in front of properties in front of dwelling curtilages. Provision of on crossing detection to Birmingham Road signals, and pedestrian crossing near Barnsley Hall Drive. Provision of localised widening of kerb lines to accommodate two lanes southbound from M42 J1 to Birmingham Road. School Lane to be converted to left out only, and car left in only, with associated kerb adjustments. Banning of right turn into School Lane. Consideration of lining and signing scheme on Alcester Road between School Lane and Birmingham Road (Cost excluded for Alcester Road scheme). Conversion of existing 40mph section from south of Birmingham Road to North of M42 J1 to 30mph.</p>	Inclusion of Live site Cameras and Zone site cameras.
<b>G</b>	A38 / Golden Cross Lane / Braces Lane	<p>Provision of two northbound and two southbound ahead movement lanes on A38 corridor through junction. Improve NB approach to 150m two lane, and southbound to be 125m. Conversion of Lane 2 on SB approach to allow ahead movements from current right turn only, with associated exit widening. Improve controlled A38 north crossing point. Relocate bus stop within A38 North merge</p>	Not included in the FBC.	This scheme has been moved to Phase 4.

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		<p>area to Golden Cross Lane. Remove bus stop lay-by in A38 south direction and relocate.</p> <p>Provide new formal crossing provision on A38 south. Provision of on crossing detectors on crossing points.</p>		