

# Traffic Management

## Minimising Disruption, Working Safely

The over-riding aim of the construction approach is to minimise any disruption to the travelling public, while allowing the works to be safely constructed.

## Highways & Bridges - Outline of Stages of Work

Stage 1 - The two new West-bound lanes for the A4440 will be constructed on a raised embankment parallel to the existing road, including two new bridges. The existing road will remain open for traffic travelling in both directions until the new road and bridges are constructed. Hams Way pedestrian and cycle bridge will be part-built off site for lifting into place. Individual overnight closures may also be required to lift the final section of the new Carrington Bridge over the River Severn into place due to the proximity of the power lines, and to lift the Hams Way Bridge into place. Any closures will be advertised well in advance and communicated to the public, and alternative routes will be signposted.

To reduce construction traffic on the existing Temeside Way, the bulk of imported material to construct the widened embankment is sourced from quarries to the West.

The site will be accessed from a temporary entrance between Powick village and Powick Roundabout, with a temporary site-traffic junction to avoid site vehicles travelling through Powick village and reduce impact on local traffic.

Stage 2 - Once the new road and bridges are constructed, East-bound traffic will continue on a single lane of the existing road, with West-bound traffic on one lane of the new road. This maintains traffic in both directions while allowing safe construction of the central reservation, merging lanes, cross-overs, and cycleway-footway.

Stage 3 – On completion of the highways works, traffic will run on the new dual carriageway, and landscaping and de-mobilisation will take place.

# Programme



# Public Consultation

## Keeping in touch, and how to engage with the process – Your views are important

Thank you for viewing our information. As part of the scheme there will be formal meetings with the Environmental Liaison Group, Local Authority Liaison Group, Community Liaison Group and discussions with land owners, tenants and their representatives. We also want to engage with and talk to the local community, users and businesses, please let us have your queries, comments and any concerns.

Our full-time Public Liaison Officer and Community Manager, Neil Evans, is available to discuss the scheme with any interested parties [Neil.Evans@alungriffiths.co.uk](mailto:Neil.Evans@alungriffiths.co.uk). We will also provide scheme details and give regular updates on progress on our forthcoming Project website and provide information to the Worcestershire County Council webpage:

[http://www.worcestershire.gov.uk/info/20254/major\\_infrastructure\\_and\\_improvement\\_schemes/1017/the\\_a4440\\_worcester\\_southern\\_link\\_road\\_improvements/4](http://www.worcestershire.gov.uk/info/20254/major_infrastructure_and_improvement_schemes/1017/the_a4440_worcester_southern_link_road_improvements/4)

If you wish to comment please complete the questionnaire and either leave it in the box provided at the Exhibition, drop in to reception at County Hall (“SLR4, Directorate of Economy and Infrastructure, Worcestershire County Council , County Hall, Spetchley Road, Worcester, WR5 2NP”) or e-mail it to: [wt@worcestershire.gov.uk](mailto:wt@worcestershire.gov.uk)

Any comments to be received by **30<sup>th</sup> June 2017**. Your comments will be treated in confidence but may be used on a non-attributable basis to prepare a summary of views received. Any comments will not prejudice your right to comment on the planning application or to write in regard to the proposed scheme at a later date.

# Welcome

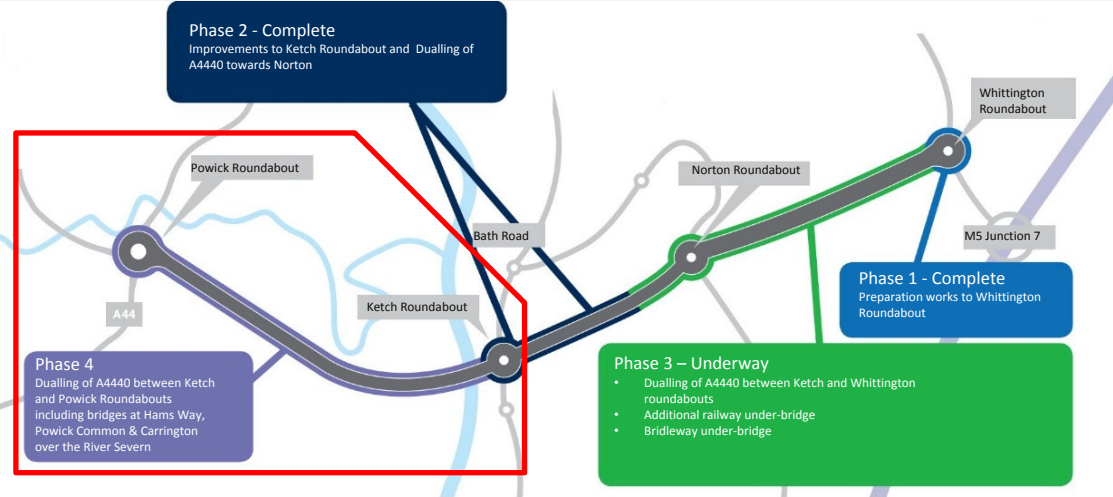
## Welcome to the Worcester Southern Link Phase 4 - Public Information Exhibition & Information Sheet

The purpose of this Exhibition is to explain the proposed ‘A4440 Worcester Southern Link Improvements Phase 4 - Temeside Way - Ketch to Powick’, to introduce members of the Project Team and to advise on our proposals for engaging with stakeholders and the public.

The scheme is Phase 4 of the programme to upgrade the A4440 Worcester Southern Link Road to dual carriageway standard. Before recent work on the SLR scheme, the A4440 Worcester SLR was largely a single carriageway route that was subject to congestion and unreliable journey times, meaning that much of the traffic between Worcester & M5 and the West of the River Severn used the city centre and Worcester Bridge.

The upgrade of the whole SLR route to dual-carriageway standard, with associated junction improvements, will significantly increase the attractiveness of this bypass route to motorists, making it the route of choice for East-West movements. This in turn relieves congestion in Worcester, improving local traffic flows for people in and around the city, with local social and economic benefits to businesses, shoppers and residents, and improving traffic flow for all of Worcestershire and links beyond.

Improvements are also being made to the pedestrian and cycle routes on the A4440 and the links at both roundabouts, for safety of existing users and to encourage more ‘Non-Motorised Users’.



Computer visualisation of South Carrington Bridge alongside existing



Video “drive-through” of the proposed scheme



Aerial outline of the route between Powick and Ketch roundabouts

# The Team



Worcestershire County Council  
Client



Burroughs  
Scheme Designer



COWI  
Bridges Designer



TACP  
Environmental Team



Wallingford HydroSolutions  
Water Management



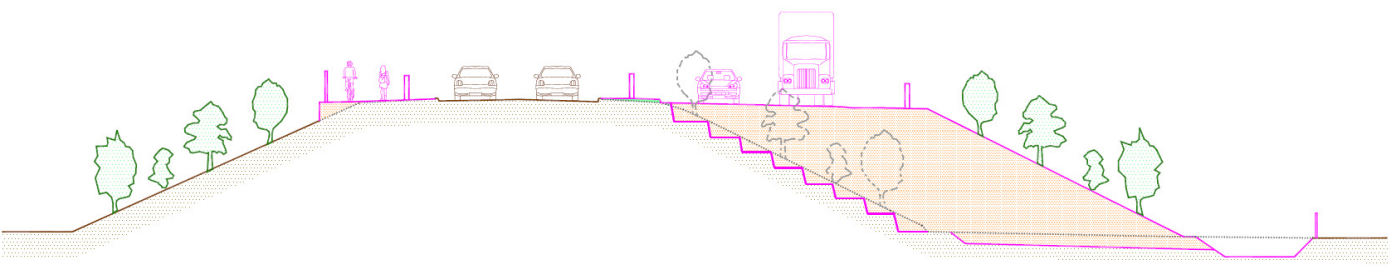
Alun Griffiths Contractors Ltd  
Contractor



Highways

A4440 Temeside Way Dualling

An additional two lanes will be constructed to the South of Temeside Way on a widened embankment with new, parallel bridges at Powick Common and Carrington Bridge for West-bound traffic. The existing road will become two lanes for East-bound traffic. This will significantly increase traffic capacity on the link between Worcester & the M5 to Malvern, Ledbury, Hereford and the West, reducing congestion and delays, and removing through-traffic from the city centre, residential areas and Worcester bridge.



Typical cross section looking East through the widened embankment

Cyclists and Pedestrians

The existing shared footway-cycleway on the North side of Temeside Way between the two roundabouts will be widened and improved to provide greater capacity and improved ride quality, and to encourage cyclists on the routes to and from Worcester on National Cycle Network Route 46 and Local Route 3.

To improve safety for cyclists and pedestrians as well as traffic flow at the roundabouts, a new pedestrian-cyclist bridge is planned on the Hams Way arm of Powick Roundabout. At Ketch Roundabout the existing north-south crossing at Carrington is replaced with lead-in ramps to an underpass below the widened bridge, also linking Temeside Way and Severn Way.



Cycleway connections Ketch Roundabout



The existing Viewpoint across the Severn floodplain towards Malvern will be relocated close by

Following on from the enlargement of the Ketch Roundabout during the SLR Phase 2 works, the capacity is further increased by dualling the Western arm over the new second Carrington Bridge for traffic from Worcester and the M5 heading West, and a segregated left turn lane towards Malvern and Hereford onto a slip lane for traffic heading West from the A38 from Kempsey.

Additionally there are improvements to queueing capacity for traffic on the approaches.

Powick Roundabout

The junction to the roundabout from the East will be improved for the dualled A4440. The segregated left turn lane from Worcester towards Powick and Malvern on the A449 is maintained, and the existing pedestrian-cyclist crossing point on Hams Way is replaced with a bridge, easing traffic flow with improvements to the Hams Way approach on removal of the existing crossing.

Bridges

Hams Way Cycle & Footbridge

This new footbridge will carry pedestrians and cyclists over the A4440 to the West of Powick Roundabout. It replaces the existing traffic light-controlled pedestrian crossing and will increase traffic flow as well as improving safety for pedestrian users.

Powick Common Bridge

Located adjacent to the existing Powick Common Bridge, this 6-span, 120m-long concrete bridge will carry the new carriageway over the floodplain.



Computer visualisation of the South Powick Common Bridge alongside existing

“Weathering Steel” beams will be used, similar to those supporting the existing Carrington Bridge as shown



Carrington Bridge

The largest of the three bridges, this 205m-long “weathering steel” and concrete bridge will carry the new carriageway across the River Severn and adjacent floodplain. A three-span arrangement (different to the existing six-span bridge) reduces environmental impacts by minimising construction in the floodplain and adjacent to the river.

Environmental Design and Mitigation

A series of environmental surveys and liaison group meetings are underway to design and mitigate environmental considerations, including;

- Ecological mitigation to include bats, badgers, birds and reptiles
- Work around and investigate palaeochannels
- Minimise loss of grade 3 agricultural land and agree replacement Common Land
- Planting reinstated on Southern embankment for screening and habitat connectivity
- Vegetation to be retained on Northern embankment to minimise impact on the Registered Battlefield, Old Powick Bridge Scheduled Ancient Monument, Listed Buildings, bats and reptiles
- Improved pedestrian and cycle route along the Northern embankment
- Swales and storage features to reduce flood risk from scheme
- Construction of new Hams Way pedestrian and cycle bridge to improve safety and connectivity
- Increased spans for new Carrington Bridge to reduce impact on River Severn
- Minimising construction traffic in residential areas, management of noise, dust and visual impact during construction
- Underpass at Ketch Roundabout to improve safety and connectivity for pedestrians and cyclists, including lighting and graded approaches
- Viewpoint at the Ketch Roundabout relocated within the existing picnic area



Battlefields, bats, and reptiles

