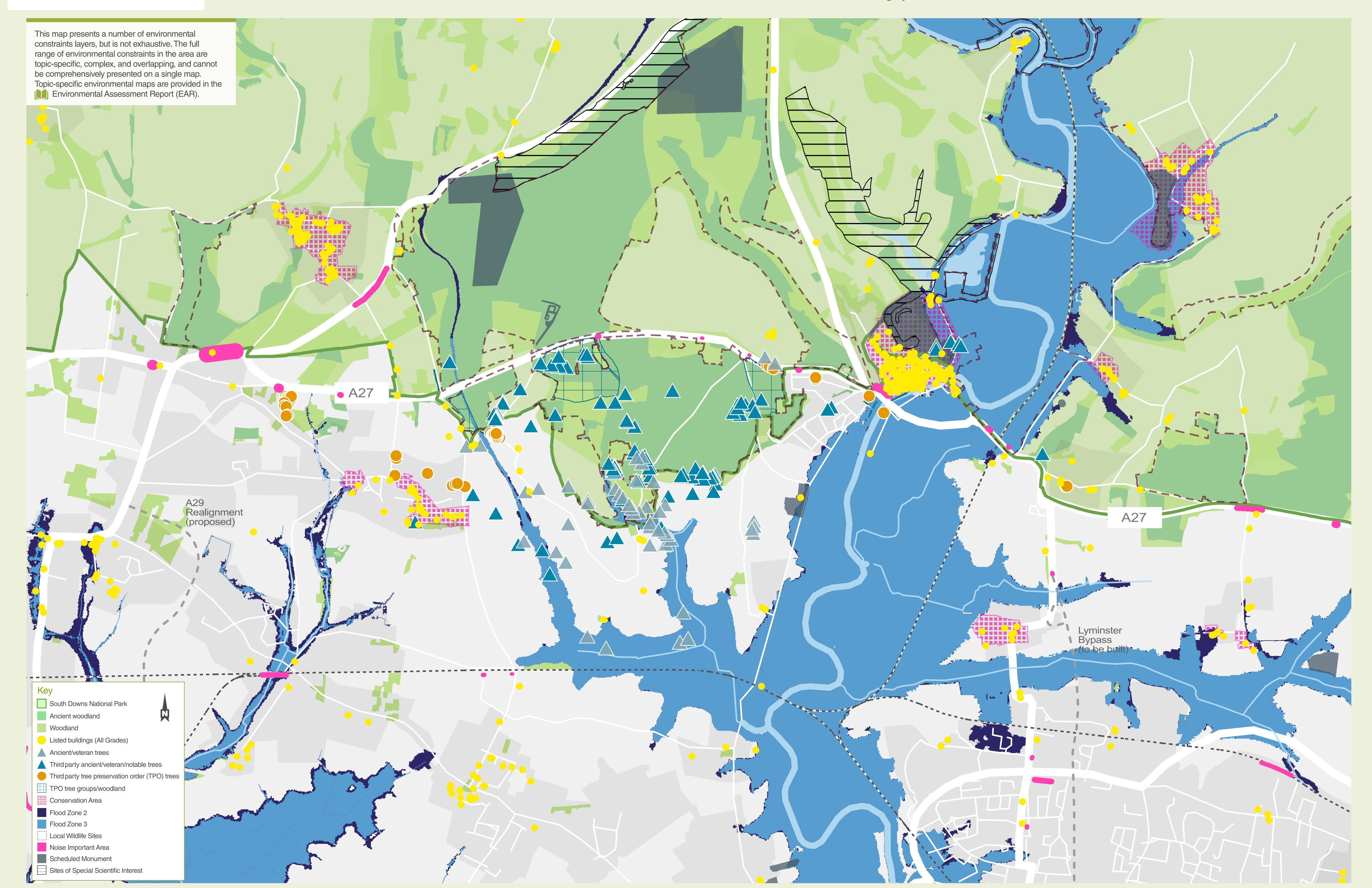


A27 Arundel Bypass Environmental constraints





Improve the safety of travellers along

Objective

Cyan

(Option 1V5)

A27 Arundel Bypass Benefits and impacts

Grey

(Option 5BV1)

Amber

(Option 4/5AV2)

Magenta

For the Cyan and Beige options, traffic which currently uses local roads to avoid congestion would use the improved A27 instead, leading to fewer accidents. However, the benefit would be lower than the Magenta, Amber and Grey options. For the Crimson option,

safety improves to a similar degree as the Cyan and Beige options. The impact is less than the Magenta, Amber and Grey options, there are significant safety benefits, with the Amber option

providing the greatest improvements, as traffic is diverted from the local roads onto the new A27. Accidents avoided are calculated over a 60-year period (from opening in 2026 to 2085) compared to a 'do minimum' scenario where 55,484 accidents would occur.

(Option 4/5AV1)

Improve the salety of travellers along	providing the greatest improvements, as traffic is diverted from the local roads onto the new A27. Accidents avoided are calculated over a 60-year period (from opening in 2026 to 2085) compared to a 'do minimum' scenario where 55,484 accidents would occur.					
tne A27 and consequently the wider local road network	411 ACCIDENTS AVOIDED	397 ACCIDENTS AVOIDED	379 ACCIDENTS AVOIDED	527 ACCIDENTS AVOIDED	727 ACCIDENTS AVOIDED	676 ACCIDENTS AVOIDED
Throughout the design and delivery stages, the scheme should ensure that customers are fully considered	Visual, noise and severance impacts on communities will be mitigated, where possible, but all options would have significant impacts on different communities. For further details, please refer to 'How the options compare: environmental assessment' on pages 24 to 27 in the brochure. All options would have an impact on agricultural land with the Cyan and Beige options taking the least amount of agricultural land. The Grey option would take the most agricultural land, followed by the Magenta, Amber and Crimson options. We will work closel with affected landowners to mitigate the impacts and provide accommodation works through agreement. The Magenta and Grey options would also affect the golf course at Avisford Park. The approximate number of residential properties located within 50m of the scheme footprint are illustrated below.					
	120 RESIDENTIAL PROPERTIES	142 RESIDENTIAL PROPERTIES	RESIDENTIAL PROPERTIES	29 RESIDENTIAL PROPERTIES	21 RESIDENTIAL PROPERTIES	A1 RESIDENTIAL PROPERTIES
	36-month construction timeframe	34-month construction timeframe	36-month construction timeframe	32-month construction timeframe	32-month construction timeframe	36-month construction timeframe
Improve capacity of the A27 whilst supporting local planning authorities to manage the impact of planned economic growth	The Cyan option journey time savings would reduce business costs, save time and provide business and employment opportunities throughout the wider area.	The Beige option would be close to capacity by 2041, making congestion and delays more likely from that point. All other impacts/benefits similar to the Cyan option.	longer term.	for the Cyan option, although these options wo	ould provide additional journey time savings	that aid business efficiency particularly in t
	Route would operate at around 45-60% capacity in 2041	Route would operate at around 85-90% capacity in 2041	Route would operate at around 45-60% capacity in 2041	Route would operate at around 45-60% capacity in 2041	Route would operate at around 45-60% capacity in 2041	Route would operate at around 45-60% capacity in 2041
Reduce congestion, reduce travel time ² and improve journey time reliability along the A27	6-8 minutes saved	4-8 minutes saved	6-9 minutes saved	6-10 minutes saved	6-10 minutes saved	6-11- minutes saved
Improve accessibility for all users to local services and facilities	All options would attract traffic onto the A27 and off the local road network, which would improve accessibility to local services and reduce congestion in Arundel. The Beige option would provide more direct access from Arundel onto the A27 than the other options, although the Ford Road roundabout would become congested after 2041. For the Cyan option, a new access to the hospital would be built. For the Beige option, access to the hospital would be away from the new A27 dual carriageway, making it slightly less accessible than the Cyan option. For the Crimson, Magenta, Amber and Grey options access to the hospital remains unchanged.					
Deliver a scheme that minimises environmental impact and seeks to protect and enhance the quality of the surrounding environment through its high-quality design	All six options would have significant potential environmental impacts with the potential to adversely impact biodiversity, heritage features, landscape, soils, noise and hydrology. These impacts could be both direct (such as loss of habitat area) or indirect (such as edge effects and fragmentation of woodland areas). However, some impacts can be mitigated and compensated through design and construction phase environmental management. The design development process takes into account environmental considerations through numerous iterations - from initial concept through to detailed design. Further detail can be found in the Environmental Assessment Report (EAR). Each option would impact woodland to a varying degree, as shown below:					
	8.37 hectares of woodland	7.44 hectares of woodland	20.57 hectares of woodland	Impacting 3.51 hectares of woodland	Impacting 5.33 hectares of woodland	Impacting 1.49 hectares of woodland
Respect the South Downs National Park (SDNP) and its special qualities in our decision-making ⁴	Reducing congestion on the A27 is likely to reduce traffic on other less suitable routes through the South Downs National Park. However, the scheme could have impacts on landscape, biodiversity, tranquillity, farming and enterprise, recreation and learning, heritage and communities. The South Downs National Park Authority has been engaged from an early stage of the design for the scheme and would continue to be involved in the process. The design of the preferred option would incorporate best practice mitigation measures to minimise any potential effects on the National Park.					
	The additional lanes and additional traffic existing effects on the special qualities of			take from the National Park. The new transports troduce a range of new effects on the specia		There would be less direct impact on to National Park as the route is outside the National Park boundary, but its setting and views from within the National Park may be affected.
	1.92km within the SDNP	1.93km within the SDNP	2.28km within the SDNP	0.74km within the SDNP	1.97km within the SDNP	Okm: within the SDNP

Crimson

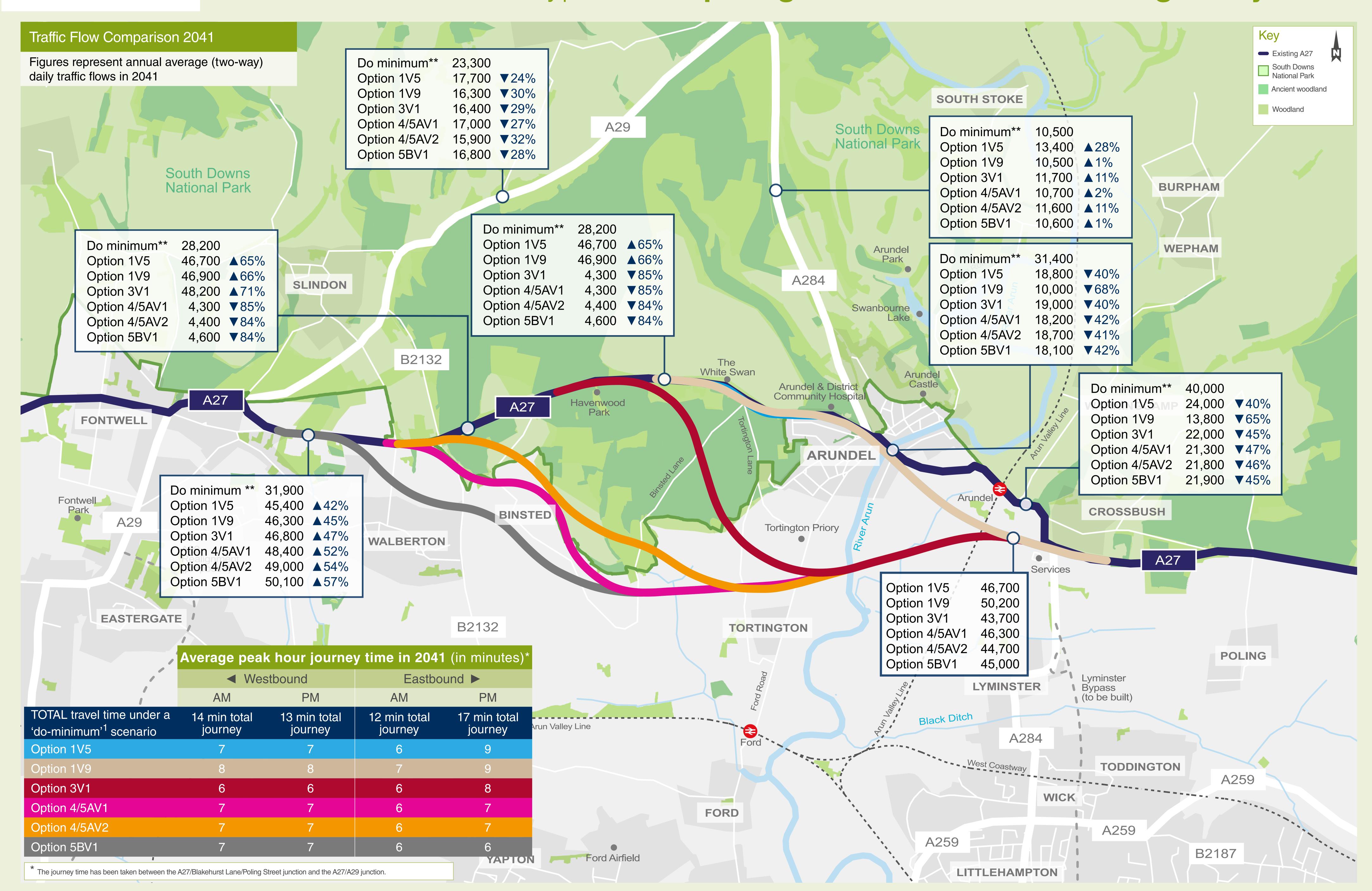
(Option 3V1)

(Option 1V9)

well-conserved historical features and a rich cultural heritage; and distinctive towns and villages and communities with real pride in their area. Further information can be found in the South Downs National Park Special Qualities Assessment (an appendix to the EAR).



A27 Arundel Bypass Comparing the routes: Annual average daily traffic



¹ 'Do minimum' refers to a scenario where the A27 Arundel Bypass would not go ahead, but the scenario does take into consideration other non-A27 Arundel improvements that have been considered as part of the traffic forecasts (e.g. Worthing and Lancing and Lyminster Bypass)