

Appendix B

Physical Environment Tables

Appraisal Summary Table

Landscape	<p>The scheme will have a neutral-slight negative impact on the majority of the study area. However, large negative impacts on the landscape have been identified on certain parts of the study area, including Arundel, Lewes, and Hastings.</p> <p>The landscape pattern and landcover between Junctions 3 and 4 of the M27 in Southampton would be damaged (slight negative impact) by improvements to the M27. There will be a slight direct negative impact on landscape around the A27 through Chichester (between Fishbourne and Westhampnett roundabouts) and Fontwell caused by junction improvements (moderate negative impact in the case of the Fontwell/Slindon Roundabout (A27/A29). There will be a detrimental (large negative) impact on the setting of Arundel which is close to the boundary with the Sussex Downs AONB. There will be a slight negative impact on landscape pattern and landcover associated with tunnel entrances around the A27 to the north of Worthing. The proposed flyover at Beddingham will have a large negative impact on the landscape. Between Selmeaton and Wilmington there will be a moderate negative impact on the landscape. There will be a large negative impact on the landscape between Bexhill and Hastings along the route of the proposed link road. There will be a slight negative impact on the landscape around Upton Wood at Dover caused by dualling of the A2.</p>	Impact of Strategy on Resource				Large Impact	Negative		
		National e.g. AONB and National Park	Slight -ve	Moderate -ve	Large -ve				
		Regional e.g. Special Landscape Area and Area of Great Landscape Value	1 on Ancient Woodland	1 on Ancient Woodland	1 on AONB				
		Local e.g. Local Plan Designations	-	-	-				
Biodiversity	<p>The scheme will have a neutral-slight negative impact on the majority of the study area. However, a serious adverse impact on biodiversity has been identified along the route of the proposed Hastings-Bexhill Link Road.</p> <p>There will be a minor adverse impact on two SSSIs and two SNCIs between Totton and Hythe to the east of Southampton due to the re-opening of the railway line. There will be a minor adverse impact on areas of biodiversity caused by the proposed dualling of the railway line in Fareham. In Chichester, there will be a slight adverse impact on areas of biodiversity (between Fishbourne roundabout and Portfield). At Fontwell, there will be a minor adverse impact on biodiversity caused by improvements to the A27/A29 (Eastergate and Slindon) roundabouts. The removal of the roundabout at Wyke road will have a slight beneficial impact on the SNCI. However construction work may have a slight negative impact unless satisfactory mitigation measures are put in place. The Arundel bypass will have a neutral effect as traffic will be taken away from an SNCI, although road construction may have adverse impacts. A SSSI in Lewes near the Lewes Southerham roundabout will be slightly adversely affected by junction improvements and the proposed Beddingham flyover. The Wilmington Bypass will have a similar impact on areas of biodiversity. The proposed Bexhill-Hastings Link Road will have a serious adverse impact on an SSSI and negative impacts on an SNCI. Proposed improvements to the A2 at Upton Wood in Dover will have a significant adverse impact on a number of nature conservation designations.</p>	Impact of Strategy on Resource					Serious (Negative) Impact	Adverse	
		National e.g. SSSI, NNR	Minor -ve	Significant -ve	Serious -ve	Very Serious -ve			
		Regional e.g. CWS, SINC	7 on SSSIs	19 on SNCIs and 1 on Ancient Woodland	1 on Ancient Woodland and 1 on SNCI	2 on SSSIs			
		Local e.g. Local Plan Designations	2 on Woodland Protection Areas						

Heritage of Historic Resources	<p>The scheme will have a neutral-slight negative impact on the majority of the study area. However, a large negative impact on the historic environment has been identified in Arundel.</p> <p>There will be slight negative impacts on the historical resource between Junctions 3 and 4 of the M27 and around the Eastleigh Chord in Southampton. The scheme may impact on historical areas in Fareham along the route of the proposed railway line dualling. Historical assets along the A27 through Chichester (between Fishbourne and the A27/A259 roundabout near Portfield) will be adversely affected. There will be a beneficial effect on the amenity value of Arundel, but large negative impacts on the town's setting caused by the proposed bypass. There will be a slight-moderate negative impact on historical features and their settings between Lewes and Wilmington. The Bexhill-Hastings Link Road will have a moderate negative impact on the historical resource along its route. Historical features around Upton Wood in Dover will experience a slight negative impact caused by the dualling of the A2.</p>	Resource	Number of Resources	Large Negative Impact
		Scheduled Ancient Monuments	At least 4	
		Listed Buildings	At least 38	
		Historic Parks and Gardens	5	
		County and Local Archaeological Sites e.g. SMR and Local Plan Designations	8	
		Conservation Areas	1	
Townscape	<p>The scheme will have a neutral-slight negative impact on the majority of the study area, with a number of areas experiencing a beneficial impact. However, a large negative impact has been identified in Hastings.</p> <p>There will be a moderate benefit on one area, and a negative impact on two areas, of townscape in Southampton caused by improvements to the M27 between junctions 3 and 4 and improvements to rail links between Totton and Hythe. There will be a negative impact on areas of townscape in Chichester caused by improvements to roundabouts. Two areas in Chichester however, will experience an improvement in townscape around Westhamnett roundabout and at the junction of Wyke road. There will be a slight negative impact on Slindon Park in Fontwell caused by improvements to the roundabout. There will be a slight positive impact on the townscapes of Littlehampton (due to a new station at Wick) and Worthing (due to the tunnel). There will be a slight-moderate negative impact on the townscape between Lewes and Selmerham caused by improvements to the Southerham roundabout and to the A27, but a positive impact on Wilmington caused by the removal of traffic from the A27 which runs close by. Eastbourne and Bexhill will experience a slight negative impact caused by the proposed new railway stations. The Bexhill-Hastings Link Road will have a large negative impact on the local townscape and there will be a slight negative impact on the townscape near Upton Wood in Dover caused by improvements to the A2 at this point.</p>	Multiplicity of features do not lend themselves well to a matrix.		Large Negative Impact