

A2/A282 Link E deferral: APPRAISAL SUMMARY TABLE June 2006

Preferred Option	Option	Description Improvement comprising free flow links for E-N, N-E movements. Includes 3 multi-span viaducts and 4 further interchange bridges. Also includes 2km of A2 widening between M25 and Bean.	Problems <i>Junction needs improvement and A2 needs widening to avoid peak period congestion.</i>	Present Value Cost to Government £102.2m (All costs are 2002 values discounted to 2002)
OBJECTIVE		QUALITATIVE IMPACTS	QUANTITATIVE MEASURE	ASSESSMENT
ENVIRONMENT (* compares effect of 'Do Something 2' with 'Do Minimum' assuming high traffic growth) NB: 'Do Minimum' is the scenario where only A2 Bean to Cobham Phase 1 has been built. 'Do Something 1' is the scenario where only A2 Bean to Cobham Phases 1 and 2 have been built. 'Do Something 2' is the scenario where A2 Bean to Cobham Phases 1 and 2 and the A2/A282 Dartford Improvement Scheme have been built	Noise *	No properties would experience an increase in noise levels in the Design Year (2022) due to use of low noise surfacing, mounds and fencing. 51 properties would experience a reduction in noise levels of between 0.7 and 7.5 dB(A), 20 of which would experience a reduction greater than 3 dB(A). Without the Scheme, use of low noise surfacing in the Design Year would mean 45 properties would experience a reduction of between 1 and 3 dB (A)	No. of properties experiencing: -Increase in noise 0 -Decrease in noise 51	<i>30 less people highly annoyed in 2022</i>
	Greenhouse Gases*	Overall CO ₂ emissions from the road network will increase slightly over the period 2007 to 2022 as a result of increased traffic flows. This broad assessment does not take into account the likely benefits due to the reduction in congestion at the junction. Traffic which would previously have used Link E will now flow onto a temporary Link located on the existing roundabout, which does not result in traffic flow changes to any other road links. Therefore, the assessment score does not alter with Link E omitted from the scheme.	Not applicable	Increase in greenhouse gases as a result of the Scheme in Year 2022 of +5187 tonnes/year = +9.5%
	Landscape	Degraded urban fringe landscape, existing motorway/link road/junction screened by mounding and planting. '4th tier' to Junction 2 visible.	Not applicable	<i>Slight Adverse</i>
	Townscape	Not applicable	Not applicable	Not applicable
	Heritage of Historic Resources	Deterioration to the setting of listed buildings and Scheduled Ancient Monument and impact on regionally and locally important archaeological remains.	Not applicable	<i>Moderate Adverse</i>
	Biodiversity	No direct impact on designated sites, but indirect effect on Darent Wood SSSI. Direct impacts on calcareous grassland, dormouse habitat and reptiles.	Not applicable	<i>Slight Adverse</i>
	Water Environment	Soakaways relocated and/or replaced with balancing ponds. Enhanced pollution control facilities before discharging into river	Not applicable	<i>Slight Beneficial</i>
	Physical Fitness	No change to distances cycled or walked	Not applicable	<i>Neutral</i>
	Journey Ambience	Less congestion and stress reduced due to improved signing	Not applicable	<i>Slight Beneficial</i>