Appraisal Summary Table

Option A18-A180 Link Road		Description	Problems	Present Value of Costs to Public Accounts £m
		New link road between the B1210 and the A180 at Stallingborough Interchange	HGVs for the port passing through Immingham causing safety and environmental nuisance	£7.718 m
OBJECTIVE	SUB-OBJECTIVE	QUALITATIVE IMPACTS	QUANTITATIVE ASSESSMENT	ASSESSMENT
ENVIRONMENT	Noise	It is considered that improvements in the noise environment are due to the re- routing of road traffic as a result of the New Link Road. Montessori School,	Population annoyed without the scheme is 596. Population annoyed with the scheme is 564.	The net difference in
	Local Air Quality	Benefits are due to improved traffic flow and movement of through traffic away from areas with high numbers of relevant receptors. Improvement expected at the AQMA on Kings Road / Pelham Road junction		A significant overall improvement in air quality NO2 = -946.5 PM10 = -197.
	Greenhouse Gases	Benefits are due to improved traffic flows and journey times and reduction in total fuel consumption.	Total change in tonnes of carbon emitted between 'with scheme' and 'without scheme' for the whole appraisal period is 1,947 and for the opening year is -3.	The net present value of the total change in carbon emissions over the whole appraisal period is: £55,926.
	Landscape	Introduction of a new road in a rural area. Mitigation measures will reduce the visual impact on the landscape		Slight Adverse
	Townscape	Small scale improvement works on Pelham Road, improving pedestrian accessibility and reducing severance and improving social interactions		Slight Beneficial
	Heritage of Historic Resources	No scheduled monuments or listed buildings are located within the vicinity of link road		Neutral
	Biodiversity	The scheme has the potential to provide biodiversity enhancement, and providing that existing mature trees are retained		Slight Beneficial
	Water Environment	Scheme will be designed to ensure minimal impact on the water environment and the risk of flooding.		Neutral
	Physical Fitness	The scheme does not promote or discourage walking or cycling		Neutral
	Journey Ambience	The main impact will be the reduction in the fear of accidents		Moderate Beneficial
SAFETY	Accidents	Introduction of the new road is forecast to lead to a re-assignment of traffic	A reduction of 508 accidents over the appraisal period.	PVB £22.011m

	Security	No impact on security		Neutral
ECONOMY	Public Accounts		Central Govt PVC = £7.020m Local	
			Govt PVC = £0.698m	PVC £7.718m
	Transport Economic Efficiency:		Users PVB = £34.088m Transport	PVB £34.088m
	Business Users & Transport		Providers $PVB = \pounds 0$ Other $PVB = \pounds 0$	
	Providers			
	Transport Economic Efficiency:		Users PVB = £18.873m	PVB £18.873m
	Consumers			
	Reliability	No significant impact on 'stress'. Introduction of new roundabout on B1210	Do-minimum Stress = 41.9% Do-	Slight Adverse
		results in delays which vary by a few seconds	something Stress = 56.3%	
	Wider Economic Impacts	Not assessed as scheme not in a regeneration area		Not assessed
CCESSIBILITY	Option values	Scheme does not involve the introduction or withdrawal of a transport services		
				PVB £0
	Severance	15-25% reduction in traffic on Pelham Road an area of high pedestrian activity		Slight Beneficial
				5
	Access to the Transport System	Scheme does not impact on the public transport system		Neutral
NTEGRATION	Transport Interchange	Scheme does not impact on either passenger or freight interchange		Neutral
	Land-Use Policy	Scheme contributes significantly to a number of local, regional and national		Beneficial
		land use and transport policies		
	Other Government Policies	Scheme will comply with PPS 25 Development and Flood Risk		Neutral

Analysis of Monetised Costs and Benefits

Noise	
Local Air Quality	
Greenhouse Gases	59
Journey Ambience	
Accidents	22,011
Consumer Users	18,873
Business Users and Providers	34,088
Reliability	
Option Values	
Present Value of Benefits (see notes) (PVB)	75,031
Public Accounts	7,718
Present Value of Costs (see notes) (PVC)	7,718
OVERALL IMPACTS	
Net Present Value (NPV)	67,313 NPV=PVB-PVC
Benefit to Cost Ratio (BCR)	9.72 BCR=PVB/PVC
Notes : All values in £,000's in 2002 prices and values	
	are regularly or occasionally presented in monetised form here monetisation is in prospect. There may also be other

in transport appraisals, together with some where monetisation is in prospect. There may also be other significant costs and benefits, some of which cannot be presented in monetised form. Where this is the case, the analysis presented above does NOT provide a good measure of value for money and should not be used as the sole basis for decisions.

Economic Efficiency of the Transport System (TEE)

Consumers	ALL MODES		ROAD		BUS & COACH	RAIL		OTHER
User benefits	TOTAL		Private Cars and LGVs	6	Passengers	Passengers		
Travel time	18,169			18,169				
Vehicle operating costs	704			704				
User charges	0							
During Construction & Maintenance	0							
NET CONSUMER BENEFITS	18,873	(1)		18,873	0		0	0
Business								
User benefits			Goods Vehicles	Business Cars & LGVs	Passengers	Freight	Passengers	
Travel time	28,637		11,027	17,610				
Vehicle operating costs	5,451		4,559	892				
User charges	0							
During Construction & Maintenance	0							
Subtotal	34,088	(2)	15,586	18,502	0	0	0	0
Private sector provider impacts		_				Freight	Passengers	
Revenue	0							
Operating costs	0							
Investment costs	0							
Grant/subsidy	0]						
Subtotal	0	(3)			0	0	0	0
Other business impacts		_						
Developer contributions	0	(4)						
NET BUSINESS IMPACT	34,088	(5) =	= (2) + (3) + (4)					
TOTAL								
Present Value of Transport Economic Efficiency Benefits	52,961	(6) =	= (1) + (5)					
				Notes	s: Benefits appear as p		nile costs appear as n les in £,000's in 2002	-

Public Accounts

	ALL MODES	ROAD		BUS & COACH	RAIL		OTHER
Local Government Funding	TOTAL	INFRA	STRUCTURE				
Revenue	0						
Operating Costs	0						
Investment Costs	698		698				
Developer and Other Contributions	0						
Grant/Subsidy Payments	0						
NET IMPACT	698	(7)	698	0		0	0
Central Government Funding							
Central Government Funding Revenue	0						
Operating Costs	469		469				
Investment Costs	6,143		6.143				
Developer and Other Contributions	0		,				
Grant/Subsidy Payments	0						
Indirect Tax Revenues	408		408				
NET IMPACT	7,020	(8)	7,020	0		0	0
TOTAL Present Value of Costs							
(PVC)	7,718	(9) = (7) + (8)	3)				
	Notes			bers, while revenues and 'De	-		ear as negative number n 2002 prices and value

Appraisal Cost Proforma Summary Sheet

Assumptions:

Price Year Base	2007
(Earliest - 1998)	

Note: Promoters are requested to enter the price year base they are using into the above

Investment cost	
optimism bias (%)	44
Operating cost	
optimism bias (%)	0

QRA P(80) (total)	
	2,618
QRA P(50) (total)	
	1,953
Design Year	
Operating Cost	
(usually 15 years from	
opening year)	0
Operating Cost (all	
years total)	
	0

COST BREAKDOWN:

All values in £,000's (thousands)

	All values in 2,000 s	(anouounuo)			
Financial Year		cost inflation	Risk adjusted cost using QRA P (mean)	Risk adjusted cost including Optimism Bias	Risk adjusted cost including OB deflated and discounted to 2002 Market Prices
2009/10	385	438	136	826	785
2010/11	735	876	484	1,959	1,798
2011/12	3,122	3,941	140	5,877	5,214
	1			1	

Totals for remaining appraisal years:

	<u> </u>				
Totals:	4,242	5,255	760	8,662	7,797

BEFORE and AFTER IMPLEMENTATION COMPARISONS This should be populated with estimates from the local transport model for the approval stage being bid for and any earlier approval stages.

	Programme	Conditional	Full	
	Entry	Approval	Approval	Post - Implementation
Capital Cost (£000)	7,672			
Annual Operating Cost (£000)	0			
Annual Maintenance Cost (£000)	21			
Annual Revenue (£000)	0			
Annual Passenger/Vehicle Trips (m)	23			
Annual Passenger/Vehicle Km (m)	275			
Congestion Benefits (£000)	46,805			
Mode Shift (%)	0			