



South Essex Rapid Transit Major Scheme Business Case

Appendix 4H Capital Costs

April 2010



A partnership project between Essex County Council, Southend-on-Sea Borough Council and Thurrock Council

Capital Cost Details

South Essex Rapid Transit (*sert*)

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Produced for
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1 Introduction

A Major Scheme Business Case (MSBC) is being submitted by Essex County Council in partnership with Thurrock Council and Southend on Sea Borough Council for the South Essex Rapid Transit (*sert*) scheme linking Lakeside in Thurrock to Southend town centre via Basildon within the Thames Gateway South East (TGSE) area.

Mouchel have been asked to produce a Capital Cost level 1 estimate based on the concept designs for *sert* routes 1 and 2. This is to be included within the main MSBC documentation and used to assess the budgets required to construct the scheme.

This report covers the Capital Costs associated with the highway civil engineering works for the whole scheme. Estimate sheets have been provided each of the 75 individual links within the two routes. Summary sheets have been provided for each route as well as the whole scheme.

Descriptions and background information for the rate build up and assumptions made during the estimating process have also been included.

The concept designs that the Capital Costs have been based on are still at an early stage and no topographical surveys, geotechnical surveys, environmental surveys or structural assessments have been carried out.

Land Acquisition costs have not been included within the estimates although the probable areas required have been included within the estimate sheets.

Drawings used in the production of the Capital Cost level 1 estimate are as follows:

Route 1 – TM0022/T1/100/M/101 to 110 and TM0022/B1/100/M/101 to 105.

Route 2 – TM0022/S1/100/M/101 to 105.

2 Capital Cost Details

2.1 Capital Costs – Construction

Level 1 estimates for the Capital Costs have been developed for each link of the three routes included within the **sert** project. These are base costs and do not include inflation or Optimum Bias. The rates are based on Q2 2009 prices.

The costs are presented in line with the Design Manual for Roads and Bridges (DMRB) series numbers and the rates have been built up using a variety of different sources including SPON'S Civil Engineering and Highway Works Price Book, Schedules of Rates for highway works estimating agreed with the local Highway Authority (Essex County Council), local Term Maintenance Rates and experience of similar works such as bus stop refurbishment and traffic signal installation.

Table A below details the series coverage, rate build up and reference datum.

Table A: Series coverage, rate build up and reference datum

Series	Description	Rate	Reference data
200	<u>Site Clearance</u> – includes for the removal of street furniture, foliage, existing highway features such as kerbing.	Assumed to be 2% of the works cost	Past experience of similar work
300	<u>Fencing and Barriers</u> – includes for boundary fences only	£27/m	SPON'S 2007 rates uplifted by 14% to gain 2009 prices.
400	<u>Safety Fencing</u> – including Pedestrian guardrail and Road Restraint System	£60/m (guardrail)	Term Maintenance rates
		£65/m (road restraint system)	SPON'S 2007 rates uplifted by 14% to gain 2009 rates and then readjusted to take into account local experience
600	<u>Earthworks</u> – including excavation of carriageway / footway or verge, fill to build up verge, disposal and land tax	£28/m ³	Based on agreed Local Highway Authority estimating rates
700	<u>Pavements and surfacing</u> – includes carriageway construction, planning and surfacing, antiskid materials and drainage	£90/m ² (construction)	SPON'S 2007 rates uplifted by 14% to gain 2009 prices.
		£10/m ² (planning & surfacing)	
		£15/m ² (anti skid surfacing)	Past experience of similar work

Series	Description	Rate	Reference data
1100	<u>Kerbs, Footways and Paved Areas</u> – including footway / cycleway, raising of covers and kerbing	£30/m ² (construction)	SPON'S 2007 rates uplifted by 14% to gain 2009 prices.
		£25/m (kerbing)	Past experience of similar work
1200	<u>Traffic Signs and Markings</u>	Item – each individual link is specifically assessed.	Past experience of similar work
	<u>Traffic Signals</u>	Item – each junction assessed	Past experience of similar work
1300	<u>Road Lighting and Electrical</u> - including columns, lanterns, and connections,	£1200/column	Based on discussions with lighting engineers and Local Authority rates.
3000	<u>Landscaping</u> – including topsoil, and turf / seed	£5/m ²	SPON'S 2007 rates
	<u>Bus Stops</u> – including RTPI (real time passenger information) info, shelters and access kerbs	£50,000/stop	Past experience of similar work within the south Essex area
	<u>Structures</u>	Item – each structure individually assessed	An assumption based on the nature of the structure affected
	<u>Statutory Undertakers (STATS)</u>	£1000/m or £1800/m	Past experience of similar work
	<u>Preliminaries</u> – including site establishment and disestablishment	Assumed to be 20% of the works cost	Past experience of similar work
	<u>Traffic Management</u>	Assumed to be 15% of the works cost	Past experience of similar work
	<u>Environmental Management</u>	Assumed to be 1% of the works cost	An assumption based on the fact that the majority of the routes are passing through urbanised areas

A number of assumptions have been made during the Level 1 estimating process and these are detailed below:

Fencing This has only been included where the proposals extend outside of the assumed existing highway boundary. Post and wire fencing has been used.

Safety Fences: It has been assumed that a “standard style” of pedestrian guardrail will be used throughout and no allowance has been included for powder coating in non standard colours.

In line with current policy and trends, the assumed extent of new pedestrian guardrail has been kept to a minimum.

It has been assumed that any existing Road Restraint System meets current standards and will remain in place where unaffected by the proposals. New barrier will only be installed where required by any carriageway re-alignment. This has been allowed for over the length of the re-alignment only. The use of single sided barrier has been assumed.

Drainage: All drainage works have been included within the Series 700 Carriageway Construction rate. It has been assumed that in most cases where carriageway widening is taking place new gullies will be installed utilising the existing gully connections to the main surface water sewer. Construction of new inspection chambers and drainage systems has been assumed as being only required where complete new sections of carriageway are being proposed so have been kept to a minimum.

Earthworks: It has been assumed that all excavation will be in acceptable material for a depth of 0.5m.

Disposal of material has been assumed at greater than 1km from site plus tipping charges.

All spoil has been assumed to fall within the lower rate for landfill tax.

Pavements: Full depth carriageway construction has only been allowed for where there are areas of carriageway widening or new sections of carriageway are proposed. No allowance has been made for reconstruction of the carriageway within the surrounding areas.

One depth of carriageway construction (500mm) has been assumed adequate for all areas of new construction throughout the scheme.

Carriageway planning and surfacing to a depth of 40mm has been allowed for in certain areas however no pavement assessment has been carried out to determine whether the areas are sufficient or within appropriate locations.

Kerbs footways and Full depth footway reconstruction has only been allowed for where there areas of footway widening / realignment or new sections of

paved areas:	<p>footway are proposed.</p> <p>One depth and specification has been assumed adequate for all areas of new footway and / or cycleway construction throughout the scheme.</p> <p>No special surfaces such as “resin bound aggregate”, block paving or paving slabs have been used.</p> <p>It has been assumed that standard pre-cast concrete kerbing will be used throughout.</p>
Traffic Signs and Road Markings:	<p>A nominal amount has been assumed for each link based upon the complexity of the link. As a minimum, “white lining” has been assumed as being required where the route is segregated and some signage where the route is shared.</p> <p>No allowance has been made for the provision of coloured surfacing within dedicated bus lanes.</p>
Street Lighting:	<p>It has been assumed that the existing street lighting systems meet current standards and new lighting has only been provided where carriageway widening / realignment is proposed.</p> <p>New lighting columns have been provided for at 30m intervals.</p> <p>The rate includes for new column, lantern, electrical equipment and electrical connection.</p>
Traffic Signals:	<p>Two rates have been used to calculate the costs. Where it has been assumed that an existing signalised junction can be upgraded to accommodate the proposals a rate of £25,000 per arm has been used which allows for new signal heads, posts, controllers and additional cabling. Where an existing pedestrian crossing (puffin or toucan etc.) is to be upgraded, a rate of £25,000 has been used. Where a new signalised junction is required or it has been assumed that the proposed works would required significant changes a rate of £50,000 per arm has been used which allows for new signal heads, posts, controllers, ducting, cabling, detection loops and tactile paving.</p>
Landscaping:	<p>It has been assumed that landscaping is only required where any new areas of construction have occurred i.e. at areas of carriageway widening or footway realignment. 150mm of topsoil with either turf or seeding has been assumed for a width of 1m along all affected areas. Where areas of new carriageway intrude heavily into existing grassed islands resulting in small areas of grass remaining the whole of the island has been included for landscaping. The provision of new trees or decorative planting has not been allowed for.</p>
Bus stops:	<p>It has been assumed that all proposed bus stops will be new and of a common pattern although the rates include for a specialised shelter rather than the standard types currently seen throughout the</p>

routes. It has been assumed that each shelter will be paid for within the construction budget rather than paid for and provided by advertising companies or bus operators.

Provision for some form of “real time passenger information” (RTPI) has been allowed for although the exact details are not known. Electrical connections have been allowed for however no allowance has been made for the linking of all of the stops via a cabled network.

Provision of High Access kerbing has been allowed for as this has a greater cost than the standard kerbing provided under series 1100.

Structures: No investigation has been carried out into the current condition of the structures or the exact measures required to achieve the proposals. An assumed lump sum has been provided for each location identified as requiring changes.

Statutory Undertakes Apparatus: No C3 budget Estimates have been requested at this stage and all estimated costs have been based on C2 records received from the individual companies.

It has been assumed that any apparatus that was seen to be located within the footprint of any new areas of footway or carriageway construction will require diversion.

Two rates have been used depending on the amount / severity of the apparatus within the location. The rates are based on the results of similar STATS diversionary costs recently experienced within the Basildon area of Essex. Both rates were reviewed and reduced subsequent to the Independent review carried out by Atkins so values differ.

The revised rates are as follows: lower rate = £1000/m, higher rate = £1800/m.

Land acquisition Areas that have been calculated for land acquisition where the proposals extend outside of the assumed existing highway boundary.

No costs have been provided for these areas as this is dealt with in a separated part of the MSBC documentation.

Details of the above elements for each of the individual links (75 in total) along with a total page for each route and a total page for the whole scheme have been included in Tables B, C, D, E, and F that follow.

Links 1, 2 and 3 of the Southend route (**sert** Route 2) have been excluded from the route as they are to be included within a separately funded major scheme along the A127.

An independent review of the Level 1 estimates for Capital Costs, based on the conceptual design drawings, was commissioned from Atkins. They were asked to review the process that was adopted to derive the cost estimates, as well as the resultant estimates and to provide reasons and suggested changes if they were not in agreement.

Atkins concluded that although some of the individual values for elements of the scheme may have been over- or under-estimated (particularly in respect of some rates assumed), the estimates were essentially sound.

Application of the amended rates lead to a 2.5% reduction in overall estimated Capital Costs. It has decided by the project team to continue using the initial cost estimates in further assessment as it will represent a more robust cost estimate.

A copy of the independent review by Atkins is included within Appendix A.

Table B - Detailed breakdown for Route 1: Basildon and Thurrock

LAKESIDE – EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 1 – A13 RAB to Lakeside Bus Terminus

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 310

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	8,294	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	10	60.00	600	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1050	28.00	29,400	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	2100	90.00	189,000	
	Planing and resurfacing	m ²	600	10.00	6,000	
	Anti-skid	m ²	900	15.00	13,500	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	90	30.00	2,700	
	Kerbing	m	440	25.00	11,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			500	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	10	1200.00	12,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0		0
	Land Acquisition area required	m ²	80			
Sub Total				£	422,994	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	84,599	
100 01	Traffic Management	%		0.15	63,449	
100 02	Environmental management	%		0.01	4,230	
Estimated Construction Costs				£	575,272	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 2 – Lakeside Bus Terminus / A126 Roundabouts

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	12,527	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1540	28.00	43,120	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	3080	90.00	277,200	
	Planing and resurfacing	m ²	880	10.00	8,800	
	Anti-skid	m ²	1200	15.00	18,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	150	30.00	4,500	
	Kerbing	m	230	25.00	5,750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	540			
Sub Total				£	638,897	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	127,779	
100 01	Traffic Management	%		0.15	95,835	
100 02	Environmental management	%		0.01	6,389	
Estimated Construction Costs				£	868,900	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 3 – A126 Roundabout to West Thurrock Way Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 205

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	1,776	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	364	28.00	10,192	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	728	90.00	65,520	
	Planing and resurfacing	m ²	420	10.00	4,200	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	0	30.00	0	
	Kerbing	m	0	25.00	0	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			500	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	7	1200.00	8,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.00	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions £1K per m for realigned C/W lengths	item	0	0.00		0
	SU Diversions for realigned C/W lengths	m	0			
Sub Total				£	90,588	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	18,118	
100 01	Traffic Management	%		0.15	13,588	
100 02	Environmental management	%		0.01	906	
Estimated Construction Costs				£	123,200	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 4 – West Thurrock Way Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Costs
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	9,905	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1040	28.00	29,120	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	2080	90.00	187,200	
	Planing and resurfacing	m ²	445	10.00	4,450	
	Anti-skid	m ²	2400	15.00	36,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	113	30.00	3,390	
	Kerbing	m	520	25.00	13,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	600	5.50	3,300	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	250	1000.00		250,000
	Land Acquisition area required	m ²	600			
Sub Total					£ 505,165	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	101,033	
100 01	Traffic Management	%		0.15	75,775	
100 02	Environmental management	%		0.01	5,052	
Estimated Construction Costs					£ 687,024	250,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 5 – West Thurrock Way Roundabout to Sandy Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 570

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Costs
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	9,776	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	2283	28.00	63,924	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	4160	90.00	374,400	
	Planing and resurfacing	m ²	4275	10.00	42,750	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	810	30.00	24,300	
	Kerbing	m	1280	25.00	32,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	19	1200.00	22,800	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	5700	5.50	31,350	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	570	1000.00		570,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 603,300	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	120,660	
100 01	Traffic Management	%		0.15	90,495	
100 02	Environmental management	%		0.01	6,033	
Estimated Construction Costs					£ 820,488	570,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 6 – Sandy Lane / Stoneness Road Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	9,526	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1309	28.00	36,652	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	2330	90.00	209,700	
	Planing and resurfacing	m ²	977.50	10.00	9,775	
	Anti-skid	m ²	1400	15.00	21,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	480	30.00	14,400	
	Kerbing	m	590	25.00	14,750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	240	1000.00		240,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 485,803	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	97,161	
100 01	Traffic Management	%		0.15	72,870	
100 02	Environmental management	%		0.01	4,858	
Estimated Construction Costs					£ 660,692	240,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 7 – Stoneness Road Roundabout to Mill Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 525

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	9,719	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1076.5	28.00	30,142	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1400	90.00	126,000	
	Planing and resurfacing	m ²	2910	10.00	29,100	
	Anti-skid	m ²	1000	15.00	15,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	1380	30.00	41,400	
	Kerbing	m	1090	25.00	27,250	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	18	1200.00	21,600	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	250	1800.00		450,000
	Land Acquisition area required	m ²	0			
Sub Total				£	502,411	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	100,482	
100 01	Traffic Management	%		0.15	75,362	
100 02	Environmental management	%		0.01	5,024	
Estimated Construction Costs				£	683,279	450,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 8 – Mill Lane / The Chase junction

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,491	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	36	60.00	2,160	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	424.50	28.00	11,886	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	435	90.00	39,150	
	Planing and resurfacing	m ²	1260	10.00	12,600	
	Anti-skid	m ²	900	15.00	13,500	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	690	30.00	20,700	
	Kerbing	m	270	25.00	6,750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	70	1800.00		126,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 331,037	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	66,207	
100 01	Traffic Management	%		0.15	49,656	
100 02	Environmental management	%		0.01	3,310	
Estimated Construction Costs					£ 450,210	126,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 9 – Mill Lane to Devonshire Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 370

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,075	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	30	25.00	750	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	646	28.00	18,088	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1000	90.00	90,000	
	Planing and resurfacing	m ²	3000	10.00	30,000	
	Anti-skid	m ²	150	15.00	2,250	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	585	30.00	17,550	
	Kerbing	m	220	25.00	5,500	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,500	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	12	1200.00	14,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	150	5.50	825	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	150	1000.00		150,000
	Land Acquisition area required	m ²	0			
Sub Total				£	338,138	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	67,628	
100 01	Traffic Management	%		0.15	50,721	
100 02	Environmental management	%		0.01	3,381	
Estimated Construction Costs				£	459,868	150,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 10 – Devonshire Rd / Gumley Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,058	
300	Fencing and Barriers Erection of highway boundary fence	m	120	25.00	3,000	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	945	28.00	26,460	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1350	90.00	121,500	
	Planing and resurfacing	m ²	2080	10.00	20,800	
	Anti-skid	m ²	1300	15.00	19,500	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	1080	30.00	32,400	
	Kerbing	m	370	25.00	9,250	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	550	5.50	3,025	
	Bus Stops Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	100	1800.00		180,000
	Land Acquisition area required	m ²	0			
Sub Total				£	360,993	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	72,199	
100 01	Traffic Management	%		0.15	54,149	
100 02	Environmental management	%		0.01	3,610	
Estimated Construction Costs				£	490,950	180,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 11 – Wouldham Road / Askews Farm Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,357	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	30	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	490	28.00	13,720	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	580	90.00	52,200	
	Planing and resurfacing	m ²	960	10.00	9,600	
	Anti-skid	m ²	450	15.00	6,750	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	800	30.00	24,000	
	Kerbing	m	515	25.00	12,875	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	350	5.50	1,925	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 348,027	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	69,605	
100 01	Traffic Management	%		0.15	52,204	
100 02	Environmental management	%		0.01	3,480	
Estimated Construction Costs					£ 473,317	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 12 – Wouldham Road to Meeson's Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 365

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	7,801	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	8	60.00	480	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	906	28.00	25,368	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1605	90.00	144,450	
	Planing and resurfacing	m ²	3000	10.00	30,000	
	Anti-skid	m ²	300	15.00	4,500	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	345	30.00	10,350	
	Kerbing	m	340	25.00	8,500	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	12	1200.00	14,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	150	1000.00		150,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 397,849	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	79,570	
100 01	Traffic Management	%		0.15	59,677	
100 02	Environmental management	%		0.01	3,978	
Estimated Construction Costs					£ 541,075	150,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 13 – Wharf Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,324	
300	Fencing and Barriers Erection of highway boundary fence	m	185	25.00	4,625	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	16	60.00	960	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	778	28.00	21,784	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1300	90.00	117,000	
	Planing and resurfacing	m ²	1700	10.00	17,000	
	Anti-skid	m ²	1000	15.00	15,000	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	510	30.00	15,300	
	Kerbing	m	350	25.00	8,750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	150	5.50	825	
	Bus Stops Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	75	1000.00		75,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 375,368	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	75,074	
100 01	Traffic Management	%		0.15	56,305	
100 02	Environmental management	%		0.01	3,754	
Estimated Construction Costs					£ 510,500	75,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 14 – Wharf Road to Derby Road Bridge

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 665

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	7,535	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	516	28.00	14,448	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1000	90.00	90,000	
	Planing and resurfacing	m ²	1000	10.00	10,000	
	Anti-skid	m ²	450	15.00	6,750	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	62.5	30.00	1,875	
	Kerbing	m	275	25.00	6,875	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,500	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	22	1200.00	26,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	23	1800.00		41,400
	Land Acquisition area required	m ²	0			
Sub Total					£ 415,383	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	83,077	
100 01	Traffic Management	%		0.15	62,307	
100 02	Environmental management	%		0.01	4,154	
Estimated Construction Costs					£ 564,921	41,400

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 15 – Crown Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	2,749	
300	Fencing and Barriers Erection of highway boundary fence	m	55	25.00	1,375	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	50	65.00	3,250	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	554	28.00	15,512	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	725	90.00	65,250	
	Planing and resurfacing	m ²	500	10.00	5,000	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	764.1	30.00	22,923	
	Kerbing	m	430	25.00	10,750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs item	item			50,000	
xxxx	SU Diversions for realigned C/W lengths	m	30	1000.00		30,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 195,809	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	39,162	
100 01	Traffic Management	%		0.15	29,371	
100 02	Environmental management	%		0.01	1,958	
Estimated Construction Costs					£ 266,300	30,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 16 – Crown Road to Bedford Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 195

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	5,143	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	175	28.00	4,900	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	350	90.00	31,500	
	Planing and resurfacing	m ²	100	10.00	1,000	
	Anti-skid	m ²	600	15.00	9,000	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	6	1200.00	7,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	20	1000.00		20,000
	Land Acquisition area required	m ²	0			
Sub Total				£	262,293	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	52,459	
100 01	Traffic Management	%		0.15	39,344	
100 02	Environmental management	%		0.01	2,623	
Estimated Construction Costs				£	356,718	20,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 17 – Bedford Road to Hathaway Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 175

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	10,664	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	980	28.00	27,440	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1960	90.00	176,400	
	Planing and resurfacing	m ²	280	10.00	2,800	
	Anti-skid	m ²	600	15.00	9,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	220	30.00	6,600	
	Kerbing	m	110	25.00	2,750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	6	1200.00	7,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	85	1000.00		85,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 543,854	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	108,771	
100 01	Traffic Management	%		0.15	81,578	
100 02	Environmental management	%		0.01	5,439	
Estimated Construction Costs					£ 739,641	85,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 18 – Hathaway Road to Bridge Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 210

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	6,452	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	695	28.00	19,460	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1150	90.00	103,500	
	Planing and resurfacing	m ²	230	10.00	2,300	
	Anti-skid	m ²	450	15.00	6,750	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	480	30.00	14,400	
	Kerbing	m	240	25.00	6,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	7	1200.00	8,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	150	1000.00		150,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 368,262	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	73,652	
100 01	Traffic Management	%		0.15	55,239	
100 02	Environmental management	%		0.01	3,683	
Estimated Construction Costs					£ 500,836	150,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 19 – Bridge Road / Bradleigh Avenue

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	5,910	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	45	25.00	1,125	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	390	28.00	10,920	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	750	90.00	67,500	
	Planing and resurfacing	m ²	720	10.00	7,200	
	Anti-skid	m ²	900	15.00	13,500	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No		1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	350	5.50	1,925	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	40	1800.00		72,000
	Land Acquisition area required	m ²	0			
Sub Total				£	329,630	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	65,926	
100 01	Traffic Management	%		0.15	49,445	
100 02	Environmental management	%		0.01	3,296	
Estimated Construction Costs				£	448,297	72,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 20 – Bradleigh Avenue to Whitehall Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 340

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	2,403	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	50	28.00	1,400	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	70	90.00	6,300	
	Planing and resurfacing	m ²	100	10.00	1,000	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	11	1200.00	13,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops Real time Bus Shelters	no	2	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 127,853	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	25,571	
100 01	Traffic Management	%		0.15	19,178	
100 02	Environmental management	%		0.01	1,279	
Estimated Construction Costs					£ 173,880	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 21 – Whitehall Lane / Chadwell Road

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	5,956	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	24	60.00	1,440	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	363.75	28.00	10,185	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	525	90.00	47,250	
	Planing and resurfacing	m ²	1000	10.00	10,000	
	Anti-skid	m ²	750	15.00	11,250	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No		1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	60	1000.00		60,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 306,431	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	61,286	
100 01	Traffic Management	%		0.15	45,965	
100 02	Environmental management	%		0.01	3,064	
Estimated Construction Costs					£ 416,746	60,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 22 – Chadwell Road to Lodge Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 570

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	2,431	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	405	28.00	11,340	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	765	90.00	68,850	
	Planing and resurfacing	m ²	1500	10.00	15,000	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	19	1200.00	22,800	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 123,971	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	24,794	
100 01	Traffic Management	%		0.15	18,596	
100 02	Environmental management	%		0.01	1,240	
Estimated Construction Costs					£ 168,601	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 23 – Lodge Lane

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	5,552	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	30	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	134.75	28.00	3,773	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	190	90.00	17,100	
	Planing and resurfacing	m ²	960	10.00	9,600	
	Anti-skid	m ²	1650	15.00	24,750	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	40	5.50	220	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	60	1800.00		108,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 283,145	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	56,629	
100 01	Traffic Management	%		0.15	42,472	
100 02	Environmental management	%		0.01	2,831	
Estimated Construction Costs					£ 385,077	108,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 24 –Lodge Lane to Stanford Road Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 230

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	10,320	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	40	60.00	2,400	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1459	28.00	40,852	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	2480	90.00	223,200	
	Planing and resurfacing	m ²	1000	10.00	10,000	
	Anti-skid	m ²	1650	15.00	24,750	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	8	1200.00	9,600	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	300	5.50	1,650	
	Bus Stops Real time Bus Shelters	no	1	50000.00	50,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	160	1800.00		288,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 526,322	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	105,264	
100 01	Traffic Management	%		0.15	78,948	
100 02	Environmental management	%		0.01	5,263	
Estimated Construction Costs					£ 715,798	288,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 25 – Stanford Road Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	7,310	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	30	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1134.5	28.00	31,766	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1780	90.00	160,200	
	Planing and resurfacing	m ²	1500	10.00	15,000	
	Anti-skid	m ²	1950	15.00	29,250	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	1300	5.50	7,150	
	Bus Stops					
	Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	50	1000.00		50,000
	Land Acquisition area required	m ²	0			
Sub Total				£	372,826	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	74,565	
100 01	Traffic Management	%		0.15	55,924	
100 02	Environmental management	%		0.01	3,728	
Estimated Construction Costs				£	507,043	50,000

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 26 –Stanford Road Roundabout to King Edward Drive

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 390

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	483	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0	90.00	0	
	Planing and resurfacing	m ²	500	10.00	5,000	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	13	1200.00	15,600	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
	Bus Stops Real time Bus Shelters	no	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 24,633	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	4,927	
100 01	Traffic Management	%		0.15	3,695	
100 02	Environmental management	%		0.01	246	
Estimated Construction Costs					£ 33,501	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 27 – King Edward Drive to Orsett Cock Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 2670

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum			2,156	
300	Fencing and Barriers Erection of highway boundary fence	m		25.00		
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m		65.00		
	Guardrail	m				
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³				
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²				
	Planing and resurfacing	m ²	0	10.00		
	Anti-skid	m ²	0	15.00		
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²				
	Kerbing	m				
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	89	1200.00	106,800	
	Road lighting and electrical jct	No				
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²		5.50		
	Bus Stops Real time Bus Shelters	no	0			
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total				£	109,956	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	21,991	
100 01	Traffic Management	%		0.15	16,493	
100 02	Environmental management	%		0.01	1,100	
Estimated Construction Costs				£	149,540	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 28 –Orsett Cock Roundabout (with signals)

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	7,985	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	100	60.00	6,000	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	300	28.00	8,400	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	600	90.00	54,000	
	Planing and resurfacing	m ²	320	10.00	3,200	
	Anti-skid	m ²	450	15.00	6,750	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			300,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No		1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	100	5.50	550	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 407,235	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	81,447	
100 01	Traffic Management	%		0.15	61,085	
100 02	Environmental management	%		0.01	4,072	
Estimated Construction Costs					£ 553,840	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 29 – Orsett Cock Roundabout to A13/A176

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 7660

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum			2,156	
300	Fencing and Barriers Erection of highway boundary fence	m		25.00		
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m		65.00		
	Guardrail	m				
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1238	28.00	34,664	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1925	90.00	173,250	
	Planing and resurfacing	m ²	1650	10.00	16,500	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	1100	30.00	33,000	
	Kerbing	m	550	25.00	13,750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	89	1200.00	106,800	
	Road lighting and electrical jct	No				
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	275	5.50	1,513	
	Bus Stops Real time Bus Shelters	no	0			
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total				£	382,633	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	76,527	
100 01	Traffic Management	%		0.15	57,395	
100 02	Environmental management	%		0.01	3,826	
Estimated Construction Costs				£	520,380	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 30 –A13/A176

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum			4,356	
300	Fencing and Barriers Erection of highway boundary fence	m		25.00		
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m		65.00		
	Guardrail	m				
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	270	28.00	7,560	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	480	90.00	43,200	
	Planing and resurfacing	m ²		10.00		
	Anti-skid	m ²	600	15.00	9,000	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	120	30.00	3,600	
	Kerbing	m	120	25.00	3,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²		5.50		
	Bus Stops Real time Bus Shelters	no	0			
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total				£	288,516	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	57,703	
100 01	Traffic Management	%		0.15	43,277	
100 02	Environmental management	%		0.010	2,885	
Estimated Construction Costs				£	392,382	0

LAKESIDE - EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 31 – A176 Nether Mayne to Basildon University Hospital
Roundabout

Based on drawings TM0022/T1/100/M/101 to 110 Price Base : Apr-09
Link Length linear m = 1230

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum		-	9,406	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	2512.5	28.00	70,350	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	4300	90.00	387,000	
	Planing and resurfacing	m ²	4612.5	10.00	46,125	
	Anti-skid	m ²	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	60	30.00	1,800	
	Kerbing	m	30	25.00	750	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	41	1200.00	49,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	2460	5.50	13,530	
xxxx	Bus Stops					
	Real time information	No	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	845	1000.00		845,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 579,161	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	115,832	
100 01	Traffic Management	%		0.15	86,874	
100 02	Environmental management	%		0.01	5,792	
Estimated Construction Costs					£ 787,659	845,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 32 –Basildon University Hospital Loop

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 220

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	4,766	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m		65.00	0	
	Guardrail	m	60	60.00	3,600	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1401	28.00	39,228	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	2550	90.00	229,500	
	Planing and resurfacing	m ²	0	10.00	0	
	Anti-skid	m ³	150	15.00	2,250	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	505	30.00	15,150	
	Kerbing	m	640	25.00	16,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	7	1200.00	8,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	420	5.50	2,310	
xxxx	Bus Stops Real time information	No	1	50000.00	50,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	80	1000.00		80000
	Land Acquisition area required	m ²	2300			
Sub Total				£	373,204	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	74,641	
100 01	Traffic Management	%		0.15	55,981	
100 02	Environmental management	%		0.01	3,732	
Estimated Construction Costs				£	507,557	80,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref –33– Basildon University Hospital RAB

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	11,726	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	20	60.00	1,200	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	746	28.00	20,888	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1420	90.00	127,800	
	Planing and resurfacing	m ²	300	10.00	3,000	
	Anti-skid	m ³	1950	15.00	29,250	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	145	30.00	4,350	
	Kerbing	m	800	25.00	20,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			5,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	195	5.50	1,073	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs item (Subway demolition/Infill)	item			100,000	
xxxx	SU Diversions for realigned C/W lengths	m	30	1000.00		30,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 641,087	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	128,217	
100 01	Traffic Management	%		0.15	96,163	
100 02	Environmental management	%		0.01	6,411	
Estimated Construction Costs					£ 871,878	30,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 34 – Basildon Hospital RAB to Nether Mayne/Ashdon Way junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 520

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	10,296	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	16	60.00	960	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1750	28.00	49,000	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	3500	90.00	315,000	
	Planing and resurfacing	m ²	1000	10.00	10,000	
	Anti-skid	m ³	600	15.00	9,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	345	30.00	10,350	
	Kerbing	m	1040	25.00	26,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	18	1200.00	21,600	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	3800	5.50	20,900	
xxxx	Bus Stops					
	Real time information	No	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	1012	1000.00	1,012,000	1,012,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 525,106	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	105,021	
100 01	Traffic Management	%		0.15	78,766	
100 02	Environmental management	%		0.01	5,251	
Estimated Construction Costs					£ 714,144	1,012,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 35 – Ashdon Way loop

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 430

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,229	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	40	60.00	2,400	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	158	28.00	4,424	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	40	90.00	3,600	
	Planing and resurfacing	m ²		10.00	0	
	Anti-skid	m ³	1650	15.00	24,750	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	550	30.00	16,500	
	Kerbing	m	40	25.00	1,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			3,000	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	14	1200.00	16,800	
	Road lighting and electrical jct	No		1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	170	1000.00		170,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 173,703	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	34,741	
100 01	Traffic Management	%		0.15	26,055	
100 02	Environmental management	%		0.01	1,737	
Estimated Construction Costs					£ 236,236	170,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 36 – Nether Mayne/Southernhay RAB junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	16,604	
300	Fencing and Barriers Erection of highway boundary fence	m		25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	20	65.00	1,300	
	Guardrail	m	200	60.00	12,000	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	5070	28.00	141,960	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	800	90.00	72,000	
	Planing and resurfacing	m ²	280	10.00	2,800	
	Anti-skid	m ³	1800	15.00	27,000	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	505	30.00	15,150	
	Kerbing	m	280	25.00	7,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			5,000	
	Traffic Signals	Sum			250,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	140	5.50	770	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item (Demolition/Infill Subways)	item			300,000	
xxxx	SU Diversions for realigned C/W lengths	m	180	1000.00		180,000
	Land Acquisition area required	m ²	200			
Sub Total					£ 868,384	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	173,677	
100 01	Traffic Management	%		0.15	130,258	
100 02	Environmental management	%		0.01	8,684	
Estimated Construction Costs					£ 1,181,002	180,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 37 – Southernhay RAB to Station Way junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 185

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	3,432	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	22	60.00	1,320	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	325	28.00	9,100	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	280	90.00	25,200	
	Planing and resurfacing	m ²	40	10.00	400	
	Anti-skid	m ³	600	15.00	9,000	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	740	30.00	22,200	
	Kerbing	m	75	25.00	1,875	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	6	1200.00	7,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	40	5.50	220	
xxxx	Bus Stops					
	Real time information	No	1	50000.00	50,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	90	1800.00		162,000
	Land Acquisition area required	m ²	200			
Sub Total					£ 181,947	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	36,389	
100 01	Traffic Management	%		0.15	27,292	
100 02	Environmental management	%		0.01	1,819	
Estimated Construction Costs					£ 247,448	162,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 38 – Southernhay/Station Way junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	8,603	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	16.00	60.00	960	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Spoil / Disposal)	m ³	298.00	28.00	8,344	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	480.00	90.00	43,200	
	Planing and resurfacing	m ²	25.00	10.00	250	
	Anti-skid	m ³	1350.00	15.00	20,250	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	230.00	30.00	6,900	
	Kerbing	m	50.00	25.00	1,250	
1200	Traffic Signs and Markings	Sum			3,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stops Real time information	No	2.00	50000.00	100,000	
xxxx	Structures Costs item	item			125,000	
xxxx	SU Diversions for realigned C/W lengths	m	160.00	1800.00		288,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 484,557	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	96,911	
100 01	Traffic Management	%		0.15	72,684	
100 02	Environmental management	%		0.01	4,846	
Estimated Construction Costs					£ 658,998	288,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 39 – Southernhay (Station Way to Clay Hill Road)

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 160

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,129	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	325	28.00	9,100	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	500	90.00	45,000	
	Planing and resurfacing	m ²	98	10.00	980	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	300	30.00	9,000	
	Kerbing	m	160	25.00	4,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	6	1200.00	7,200	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops					
	Real time information	No	0	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	140	1000.00		140,000
	Land Acquisition area required	m ²	0			
Sub Total					£ 78,409	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	15,682	
100 01	Traffic Management	%		0.15	11,761	
100 02	Environmental management	%		0.01	784	
Estimated Construction Costs					£ 106,636	140,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 40 – Southernhay/Clay Hill Road junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	2,638	
300	Fencing and Barriers Erection of highway boundary fence	m	65	25.00	1,625	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	24	60.00	1,440	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	255	28.00	7,140	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	300	90.00	27,000	
	Planing and resurfacing	m ²	55	10.00	550	
	Anti-skid	m ³	1500	15.00	22,500	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	80	30.00	2,400	
	Kerbing	m	180	25.00	4,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	175	1000.00		175,000
	Land Acquisition area required	m ²	120			
Sub Total					£ 138,593	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	27,719	
100 01	Traffic Management	%		0.15	20,789	
100 02	Environmental management	%		0.01	1,386	
Estimated Construction Costs					£ 188,486	175,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 41 –Southernhay (Clay Hill Road to Broadmayne)

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 700

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	7,798	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	36	60.00	2,160	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	402	28.00	11,256	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	575	90.00	51,750	
	Planing and resurfacing	m ²	110	10.00	1,100	
	Anti-skid	m ³	2550	15.00	38,250	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	457	30.00	13,710	
	Kerbing	m	300	25.00	7,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			5,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	30	1200.00	36,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item (Demolition/Infill Subway)	item			100,000	
xxxx	SU Diversions for realigned C/W lengths	m	250	1000.00		250,000
	Land Acquisition area required	m ²	70			
Sub Total				£	424,524	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	84,905	
100 01	Traffic Management	%		0.15	63,679	
100 02	Environmental management	%		0.01	4,245	
Estimated Construction Costs				£	577,353	250,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 42– Southernhay/Broadmayne junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	8,296	
300	Fencing and Barriers Erection of highway boundary fence	m	60	25.00	1,500	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	70	60.00	4,200	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	325	28.00	9,100	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	475	90.00	42,750	
	Planing and resurfacing	m ²	60	10.00	600	
	Anti-skid	m ³	2100	15.00	31,500	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	280	30.00	8,400	
	Kerbing	m	130	25.00	3,250	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			3,000	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	142	1800.00		255,600
	Land Acquisition area required	m ²	160			
Sub Total				£	429,396	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	85,879	
100 01	Traffic Management	%		0.15	64,409	
100 02	Environmental management	%		0.01	4,294	
Estimated Construction Costs				£	583,979	255,600

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 43 – Ghyllgrove (Audley Way to The Gore)

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 125

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,752	
300	Fencing and Barriers Erection of highway boundary fence	m	20	25.00	500	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	625	28.00	17,500	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	780	90.00	70,200	
	Planing and resurfacing	m ²	65	10.00	650	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	40	30.00	1,200	
	Kerbing	m	125	25.00	3,125	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	5	1200.00	6,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	65	5.50	358	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	126	1800.00		226,800
	Land Acquisition area required	m ²	0			
Sub Total				£	102,285	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	20,457	
100 01	Traffic Management	%		0.15	15,343	
100 02	Environmental management	%		0.01	1,023	
Estimated Construction Costs				£	139,107	226,800

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 44 – Ghyllgrove/Whitmore Way junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	7,391	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	36	60.00	2,160	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	965	28.00	27,020	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1340	90.00	120,600	
	Planing and resurfacing	m ²	150	10.00	1,500	
	Anti-skid	m ³	900	15.00	13,500	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	370	30.00	11,100	
	Kerbing	m	300	25.00	7,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			3,000	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	20	5.50	110	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	225	1800.00	405,000	405,000
	Land Acquisition area required	m ²	0			
Sub Total				£	410,681	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	82,136	
100 01	Traffic Management	%		0.15	61,602	
100 02	Environmental management	%		0.01	4,107	
Estimated Construction Costs				£	558,526	405,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 45 – Ghyllgrove (Whitmore Way to Festival Link)

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 910 (400)

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	3,500	
300	Fencing and Barriers Erection of highway boundary fence	m	70	25.00	1,750	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	333	28.00	9,324	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	650	90.00	58,500	
	Planing and resurfacing	m ²	95	10.00	950	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	30	30.00	900	
	Kerbing	m	240	25.00	6,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	17	1200.00	20,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	105	5.50	578	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs Item	item				
xxxx	SU Diversions for realigned C/W lengths	m	517	1800.00		930,600
	Land Acquisition area required	m ²	276			
Sub Total				£	202,902	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	40,580	
100 01	Traffic Management	%		0.15	30,435	
100 02	Environmental management	%		0.01	2,029	
Estimated Construction Costs				£	275,946	930,600

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 46 – Festival Link to Festival Leisure Park RAB

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 160

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	2,474	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	209	28.00	5,852	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	417	90.00	37,530	
	Planing and resurfacing	m ²	150	10.00	1,500	
	Anti-skid	m ³	450	15.00	6,750	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	320	30.00	9,600	
	Kerbing	m	170	25.00	4,250	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	5	1200.00	6,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	38	5.50	209	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs Item	item				
xxxx	SU Diversions for realigned C/W lengths	m	115	1000.00		115,000
	Land Acquisition area required	m ²	7.5			
Sub Total					£ 126,165	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	25,233	
100 01	Traffic Management	%		0.15	18,925	
100 02	Environmental management	%		0.01	1,262	
Estimated Construction Costs					£ 171,584	115,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 47 – Festival Leisure Park RAB

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,870	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	8	60.00	480	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	165	28.00	4,620	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	260	90.00	23,400	
	Planing and resurfacing	m ²	43	10.00	430	
	Anti-skid	m ³	900	15.00	13,500	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	140	30.00	4,200	
	Kerbing	m	145	25.00	3,625	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			3,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	5	1200.00	6,000	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	50	5.50	275	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	75			
Sub Total					£ 111,400	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	22,280	
100 01	Traffic Management	%		0.15	16,710	
100 02	Environmental management	%		0.01	1,114	
Estimated Construction Costs					£ 151,504	0

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 48 – Festival Leisure Park RAB to Festival Way

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 150

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	3,225	
300	Fencing and Barriers Erection of highway boundary fence	m	110	25.00	2,750	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	310	28.00	8,680	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	520	90.00	46,800	
	Planing and resurfacing	m ²	65	10.00	650	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	200	30.00	6,000	
	Kerbing	m	140	25.00	3,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	5	1200.00	6,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	50	5.50	275	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	160	1000.00		160,000
	Land Acquisition area required	m ²	200			
Sub Total					£ 179,880	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	35,976	
100 01	Traffic Management	%		0.15	26,982	
100 02	Environmental management	%		0.01	1,799	
Estimated Construction Costs					£ 244,637	160,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 49 – Festival Way to Gardiners Link

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 1450 (245)

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0		12,273	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	500	25.00	12,500	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1464	28.00	40,992	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	2927	90.00	263,430	
	Planing and resurfacing	m ²	190	10.00	1,900	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	360	30.00	10,800	
	Kerbing	m	880	25.00	22,000	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	48	1200.00	57,600	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	445.5	5.50	2,450	
xxxx	Bus Stops					
	Real time information	No	4	50000.00	200,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	422	1000.00		422,000
	Land Acquisition area required	m ²	2355			
Sub Total					£ 625,945	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	125,189	
100 01	Traffic Management	%		0.15	93,892	
100 02	Environmental management	%		0.01	6,259	
Estimated Construction Costs					£ 851,285	422,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 50 – Gardiners Link to A127/Gardiners Link RAB and Junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 130

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	926	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	8	60.00	480	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0	90.00	0	
	Planing and resurfacing	m ²	0	10.00	0	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0	30.00	0	
	Kerbing	m	0	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			40,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	4	1200.00	4,800	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	0			
Sub Total					£ 47,206	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	9,441	
100 01	Traffic Management	%		0.15	7,081	
100 02	Environmental management	%		0.01	472	
Estimated Construction Costs					£ 64,200	0

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 51 – A127/Gardiners Link RAB and Junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	10,323	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0	65.00	0	
	Guardrail	m	8	60.00	480	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	765	28.00	21,420	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	1529	90.00	137,610	
	Planing and resurfacing	m ²	205	10.00	2,050	
	Anti-skid	m ³	1650	15.00	24,750	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	800	30.00	24,000	
	Kerbing	m	460	25.00	11,500	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			8,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	28	1200.00	33,600	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	500	5.50	2,750	
xxxx	Bus Stops					
	Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	191	1000.00		191,000
	Land Acquisition area required	m ²	1395			
Sub Total					£ 526,483	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	105,297	
100 01	Traffic Management	%		0.15	78,972	
100 02	Environmental management	%		0.01	5,265	
Estimated Construction Costs					£ 716,017	191,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 52 – A127/Gardiniers Lane South to East Mayne

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 1330

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	4,200	
300	Fencing and Barriers Erection of highway boundary fence	m			0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	156	28.00	4,368	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	300	90.00	27,000	
	Planing and resurfacing	m ²	300	10.00	3,000	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	24	30.00	720	
	Kerbing	m	100	25.00	2,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	45	1200.00	54,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	12	5.50	66	
xxxx	Bus Stops Real time information	No	3	50000.00	150,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	83	1800.00		149,400
	Land Acquisition area required		0			
Sub Total					£ 246,854	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	49,371	
100 01	Traffic Management	%		0.15	37,028	
100 02	Environmental management	%		0.01	2,469	
Estimated Construction Costs					£ 335,721	149,400

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 53 – Paycocke Road / East Mayne junction

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,828	
300	Fencing and Barriers Erection of highway boundary fence	m	40	25.00	1,000	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	16	60.00	960	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	135	28.00	3,780	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	135	90.00	12,150	
	Planing and resurfacing	m ²	135	10.00	1,350	
	Anti-skid	m ³	150	15.00	2,250	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²		30.00	0	
	Kerbing	m	45	25.00	1,125	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	45	1000.00		45,000
	Land Acquisition area required	m ²	234			
Sub Total				£	93,243	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	18,649	
100 01	Traffic Management	%		0.15	13,986	
100 02	Environmental management	%		0.01	932	
Estimated Construction Costs				£	126,810	45,000

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 54 – Paycocke Road to Christopher Martin Road

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 300

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,260	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0	90.00	0	
	Planing and resurfacing	m ²	0	10.00	0	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0	30.00	0	
	Kerbing	m	0	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum	0			
1300	Road Lighting and Electrical Road lighting and electrical link	No	10	1200.00	12,000	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	130			
Sub Total				£	14,260	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	2,852	
100 01	Traffic Management	%		0.15	2,139	
100 02	Environmental management	%		0.01	143	
Estimated Construction Costs				£	19,394	0

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 55 – East Mayne/Christopher Martin Road jct.

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,405	
300	Fencing and Barriers Erection of highway boundary fence	m		25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	24	60.00	1,440	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0	90.00	0	
	Planing and resurfacing	m ²	0	10.00	0	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0	30.00	0	
	Kerbing	m	0	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum	1		50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0	1200.00	0	
	Road lighting and electrical jct	No	14	1200.00	16,800	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	0	50000.00	0	
xxxx	Structures Costs Culvert widening	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	256			
Sub Total				£	71,645	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	14,329	
100 01	Traffic Management	%		0.15	10,747	
100 02	Environmental management	%		0.01	716	
Estimated Construction Costs				£	97,437	0

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Link/Jct Ref – 56 – East Mayne to Gardiners Lane South

Based on Drg. Nos. TM0022/B1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 1090

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	1,908	
300	Fencing and Barriers Erection of highway boundary fence	m	0	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0	65.00	0	
	Guardrail	m	0	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0	90.00	0	
	Planing and resurfacing	m ²	0	10.00	0	
	Anti-skid	m ³	0	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0	30.00	0	
	Kerbing	m	0	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	37	1200.00	44,400	
	Road lighting and electrical jct	No	0	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0	5.50	0	
xxxx	Bus Stops Real time information	No	2	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0	0.00		0
	Land Acquisition area required	m ²	720			
Sub Total				£	147,308	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	29,462	
100 01	Traffic Management	%		0.15	22,096	
100 02	Environmental management	%		0.01	1,473	
Estimated Construction Costs				£	200,339	0

LAKESIDE-EAST MAYNE sert - Preliminary Costings
Route 1 Links and Junctions – Whole route length

Based on Drg. Nos. TM0022/B1/100/M/101 to 105
and TM0022/T1/100/M/101 to 110

Price Base : Apr-09
Link Length linear m = 8704

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	330,448	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	1,300	25.00	32,500	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	70	65.00	4,550	
	Guardrail	m	1,068	60.00	64,080	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m3	40,212	28.00	1,125,922	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m2	60,976	90.00	5,487,840	
	Planing and resurfacing	m2	41,846	10.00	418,460	
	Anti-skid	m2	39,350	15.00	590,250	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m2	16,861	30.00	505,818	
	Kerbing	m	14,570	25.00	364,250	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			100,000	
	Traffic Signals	Sum			5,290,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	646	1200.00	775,200	
	Road lighting and electrical jct	No	341	1200.00	409,200	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m2	18,205	5.50	100,130	
xxxx	Bus Stops					
	Real time information	No	40	50000.00	2,000,000	
xxxx	Structures Costs					
	item	item			675,000	
	Land Acquisition area required	m2	9,918.5			
Sub Total					£ 18,273,646	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	3,654,730	
100 01	Traffic Management	%		0.15	2,741,047	
100 02	Environmental management	%		0.01	182,736	
xxxx	SU Diversions for realigned C/W lengths	m	7,691	0.00		9,327,800
Estimated Construction Costs					£ 24,852,159	9,327,800

Table C – Link and Junction Summary for Route 1

LAKESIDE-- EAST MAYNE sert - Preliminary Costings
Route 1 Links and Junctions – Summary Sheet

Based on Drg. Nos. TM0022/B1/100/M/101 to 105
and TM0022/T1/100/M/101 to 110

Price Base : Apr-09
Link Length linear m = 8704

Link / Jct Ref	Description	Cost Civils	Estimated Stats Cost	Total
1	A13 RAB to Lakeside Bus Terminus	575,272	0	575,272
2	Lakeside Bus Terminus / A126 Roundabout	868,900	0	868,900
3	A126 Roundabout to West Thurrock Way Roundabout	123,200	0	123,200
4	West Thurrock Way Roundabout	687,024	250,000	937,024
5	West Thurrock Way Roundabout to Sandy Lane	820,488	570,000	1,390,488
6	Sandy Lane / Stoneness Road Roundabout	660,692	240,000	900,692
7	Stoneness Road Roundabout to Mill Lane	683,279	450,000	1,133,279
8	Mill Lane / The Chase junction	450,210	126,000	576,210
9	Mill Lane to Devonshire Road	459,868	150,000	609,868
10	Devonshire Rd / Gumley Road	490,950	180,000	670,950
11	Wouldham Road / Askews Farm Lane	473,317	0	473,317
12	Wouldham Road to Meeson's Lane	541,075	150,000	691,075
13	Wharf Road	510,500	75,000	585,500
14	Wharf Road to Derby Road Bridge	564,921	41,400	606,321
15	Crown Road	266,300	30,000	296,300
16	Crown Road to Bedford Road	356,718	20,000	376,718
17	Bedford Road to Hathaway Road	739,641	85,000	824,641
18	Hathaway Road to Bridge Road	500,836	150,000	650,836
19	Bridge Road / Bradleigh Avenue	448,297	72,000	520,297
20	Bradleigh Avenue to Whitehall Lane	173,880	0	173,880
21	Whitehall Lane / Chadwell Road	416,746	60,000	476,746
22	Chadwell Road to Lodge Lane	168,601	0	168,601
23	Lodge Lane	385,077	108,000	493,077
24	Lodge Lane to Stanford Road Roundabout	715,798	288,000	1,003,798
25	Stanford Road Roundabout	507,043	50,000	557,043
26	Stanford Road Roundabout to King Edward Drive	33,501	0	33,501
27	King Edward Drive to Orsett Cock Roundabout	149,540	0	149,540
28	Orsett Cock Roundabout (with signals)	553,840	0	553,840
29	Orsett Cock Roundabout to A13/A176	520,380	0	520,380
30	A13/A176	392,382	0	392,382
31	A176 Nether Mayne to Basildon University Hospital Roundabout	787,659	845,000	1,632,659
32	Basildon University Hospital Loop	507,557	80,000	587,557
33	Basildon University Hospital RAB	871,876	30,000	901,878

Link / Jct Ref	Description	Cost Civils	Estimated Stats Cost	Total
34	Basildon Hospital RAB to Nether Mayne/Ashdon Way junction	714,144	1,012,000	1,726,144
35	Ashdon Way loop	236,236	170,000	406,236
36	Nether Mayne/Southernhay RAB	1,181,002	180,000	1,361,002
37	Southernhay RAB to Station Way junction	247,448	162,000	409,448
38	Southernhay/Station Way junction	658,998	288,000	946,998
39	Southernhay (Station Way to Clay Hill Road)	106,636	140,000	246,636
40	Southernhay/Clay Hill Road junction	188,486	175,000	363,486
41	Southernhay (Clay Hill Road to Broadmayne)	577,353	250,000	827,353
42	Southernhay/Broadmayne junction	583,979	255,600	839,579
43	Ghyllgrove (Audley Way to The Gore)	139,107	226,800	365,907
44	Ghyllgrove/Whitmore Way junction	558,526	405,000	963,526
45	Ghyllgrove (Whitmore Way to Festival Link)	275,946	930,600	1,206,546
46	Festival Link to Festival Leisure Park RAB	171,584	115,000	286,584
47	Festival Leisure Park RAB	151,504	0	151,504
48	Festival Leisure Park RAB to Festival Way	244,637	160,000	404,637
49	Festival Way to Gardiners Link	851,285	422,000	1,273,285
50	Gardiners Link to A127/Gardiners Link RAB and Junction	64,200	0	64,200
51	A127/Gardiners Link RAB and Junction	716,017	191,000	907,017
52	A127/Gardiners Lane South to East Mayne	335,721	149,400	485,121
53	Paycocke Road / East Mayne junction	126,810	45,000	171,810
54	Paycocke Road to Christopher Martin Road	19,394	0	19,394
55	East Mayne/Christopher Martin Road jct.	97,437	0	97,437
56	East Mayne to Gardiners Lane South	200,339	0	200,339
TOTAL £		24,852,157	9,327,800	34,179,959

Notes:

- Costs do not include - Land / demolition / design / structure assessments / environmental survey or design work / supervision / safety audits / approvals in principal / consultation.
- Links to 50m of junction approaches.
- Junctions include 50m on approaches and extend to limits of design in side streets.
- Stats cost calculated at £1.8k/m or £1.0k/m, dependant upon High or Low impact.

Table D - Detailed breakdown for Route 2 – Southend

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 1 – Rayleigh Downs Road - A127 - No costs – see note

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-		
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	263.00	28.00	0	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	535.00	90.00	0	
	Planing and resurfacing	m ²	105.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	150.00	30.00	0	
	Kerbing	m	160.00	25.00	0	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			0	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop					
	Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total				£	0	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	0	
100 01	Traffic Management	%		0.15	0	
100 02	Environmental management	%		0.01	0	
Estimated Construction Costs				£	0	0

Note: Link 1 is not included within the Capital Cost estimate as it forms part of a separate major scheme being progressed by Southend on Sea Borough Council

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref-2 – Rayleigh Downs Road to Progress Road – No costs–see note

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
 Link Length linear m = 780

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-		
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	2015.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	2821.00	90.00	0	
	Planing and resurfacing	m ²	806.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	2418.00	30.00	0	
	Kerbing	m	806.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			0	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	26.00	1200.00	0	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	90.00			
Sub Total				£	0	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	0	
100 01	Traffic Management	%		0.15	0	
100 02	Environmental management	%		0.01	0	
Estimated Construction Costs				£	0	0

Note: Link 2 is not included within the Capital Cost estimate as it forms part of a separate major scheme being progressed by Southend on Sea Borough Council

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 3 – A127 Progress Road - The Fairway – No costs- see note.

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
 Link Length linear m = 226

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-		
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	678.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	1356.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	452.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			0	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	8.00	1200.00	0	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters		2.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 0	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	0	
100 01	Traffic Management	%		0.15	0	
100 02	Environmental management	%		0.01	0	
Estimated Construction Costs					£ 0	0

Note: Link 3 is not included within the Capital Cost estimate as it forms part of a separate major scheme being progressed by Southend on Sea Borough Council

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 4 – The Fairway to Bellhouse Road

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 365

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	20,794	
300	Fencing and Barriers Erection of highway boundary fence	m	363.00	25.00	9,075	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	2545.00	28.00	71,260	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	4330.00	90.00	389,700	
	Planing and resurfacing	m ²	760.00	10.00	7,600	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	1520.00	30.00	45,600	
	Kerbing	m	760.00	25.00	19,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			500	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	12.00	1200.00	14,400	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	363.00	5.50	1,997	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	330.00	1800.00		594000
	Land Acquisition area required	m ²	80.00			
Sub Total					£ 579,926	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	115,985	
100 01	Traffic Management	%		0.15	86,989	
100 02	Environmental management	%		0.01	5,799	
Estimated Construction Costs					£ 788,699	594,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 5 – Bellhouse Road to Bellhouse Lane

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 236

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	7,658	
300	Fencing and Barriers Erection of highway boundary fence	m	44.00	25.00	1,100	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	6.00	60.00	360	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	1350.00	28.00	37,800	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	2230.00	90.00	200,700	
	Planing and resurfacing	m ²	470.00	10.00	4,700	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	940.00	30.00	28,200	
	Kerbing	m	470.00	25.00	11,750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			50,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	8.00	1200.00	9,600	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	398.00	5.50	2,189	
xxxx	Bus Stop Real time bus shelters		2.00	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	235.00	1800.00		423,000
	Land Acquisition area required	m ²	130.00			
Sub Total					£ 455,057	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	91,011	
100 01	Traffic Management	%		0.15	68,259	
100 02	Environmental management	%		0.01	4,551	
Estimated Construction Costs					£ 618,878	423,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 6 – Bellhouse Lane to Rayleigh Road

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 945

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	20,542	
300	Fencing and Barriers Erection of highway boundary fence	m	157.00	25.00	3,925	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	6.00	65.00	390	
	Guardrail	m	44.00	60.00	2,640	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	5213.00	28.00	145,964	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	8550.00	90.00	769,500	
	Planing and resurfacing	m ²	1876.00	10.00	18,760	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	3752.00	30.00	112,560	
	Kerbing	m	1870.00	25.00	46,750	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,500	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	32.00	1200.00	38,400	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	556.00	5.50	3,058	
xxxx	Bus Stop Real time bus shelters		2.00	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	930.00	1800.00		1,674,000
	Land Acquisition area required	m ²	420.00			
Sub Total					£ 1,263,989	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	252,798	
100 01	Traffic Management	%		0.15	189,598	
100 02	Environmental management	%		0.01	12,640	
Estimated Construction Costs					£ 1,719,025	1,674,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 7 – A127 Rayleigh Road - Bridgewater Drive

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,557	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	80.00	60.00	4,800	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	302.00	28.00	8,456	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	460.00	90.00	41,400	
	Planing and resurfacing	m ²	102.00	10.00	1,020	
	Anti-skid	m ²	640.00	15.00	9,600	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	288.00	30.00	8,640	
	Kerbing	m	115.00	25.00	2,875	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,500	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	175.00	5.50	963	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00		
xxxx	Structures Costs Remove footbridge	item			100,000	
xxxx	SU Diversions for realigned C/W lengths	m	85.00	1800.00		153,000
	Land Acquisition area required	m ²	100.00			
Sub Total					£ 199,611	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	39,922	
100 01	Traffic Management	%		0.15	29,942	
100 02	Environmental management	%		0.01	1,996	
Estimated Construction Costs					£ 271,470	153,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 8 – Rayleigh Road to Southbourne Grove

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 960

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,788	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	32.00	28.00	896	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	70.00	90.00	6,300	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	32.00	1200.00	38,400	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turbing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	35.00	1800.00		63,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 200,384	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	40,077	
100 01	Traffic Management	%		0.15	30,058	
100 02	Environmental management	%		0.01	2,004	
Estimated Construction Costs					£ 272,522	63,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 9 – Southbourne Grove - Prince Avenue

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,356	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			1,000	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop					
	Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 171,156	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	34,231	
100 01	Traffic Management	%		0.15	25,673	
100 02	Environmental management	%		0.01	1,712	
Estimated Construction Costs					£ 232,772	0

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 10 – Prince Avenue to Southbourne Grove & Westbourne Grove

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
 Link Length linear m = 1390

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,144	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			2,000	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	46.00	1200.00	55,200	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters		2.00	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 160,344	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	32,069	
100 01	Traffic Management	%		0.15	24,052	
100 02	Environmental management	%		0.01	1,603	
Estimated Construction Costs					£ 218,068	0

**Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 11 – Southbourne Grove - Prittlewell Chase**

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	2,946	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	6.00	65.00	390	
	Guardrail	m	30.00	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	125.00	28.00	3,500	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	250.00	90.00	22,500	
	Planing and resurfacing	m ²	140.00	10.00	1,400	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	140.00	25.00	3,500	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			100	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	447.00	5.50	2,459	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	65.00	1800.00		117,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 155,395	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	31,079	
100 01	Traffic Management	%		0.15	23,309	
100 02	Environmental management	%		0.01	1,554	
Estimated Construction Costs					£ 211,337	117,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 12 – Westbourne Grove - Prittlewell Chase

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,040	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	6.00	65.00	390	
	Guardrail	m	30.00	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	140.00	28.00	3,920	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	280.00	90.00	25,200	
	Planing and resurfacing	m ²	160.00	10.00	1,600	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	160.00	25.00	4,000	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			500	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	420.00	5.50	2,310	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	65.00	1800.00		117,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 159,560	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	31,912	
100 01	Traffic Management	%		0.15	23,934	
100 02	Environmental management	%		0.01	1,596	
Estimated Construction Costs					£ 217,002	117,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 13 – Westbourne Grove to Hospital on Prittlewell Chase

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 330

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	268	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			200	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	11.00	1200.00	13,200	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 13,668	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	2,734	
100 01	Traffic Management	%		0.15	2,050	
100 02	Environmental management	%		0.01	137	
Estimated Construction Costs					£ 18,588	0

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 14 – Hospital on Prittlewell Chase to Hobleythick Lane

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 470

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	386	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			100	
	Traffic Signals	Sum				
1300	Road Lighting and Electrical Road lighting and electrical link	No	16.00	1200.00	19,200	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turfing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop Real time bus shelters			50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 19,686	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	3,937	
100 01	Traffic Management	%		0.15	2,953	
100 02	Environmental management	%		0.01	197	
Estimated Construction Costs					£ 26,773	0

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 15 – Hobblythick Lane - Highfield Gardens

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	3,697	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) + Land Tax	m ³	289.00	28.00	8,092	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	578.00	90.00	52,020	
	Planing and resurfacing	m ²	330.00	10.00	3,300	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	165.00	25.00	4,125	
1200	Traffic Signs and Markings					
	Road Marking	Sum			500	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	1263.00	5.50	6,947	
xxxx	Bus Stop					
	Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	100.00	1000.00		100,000
	Land Acquisition area required	m ²	0.00			
Sub Total				£	195,481	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	39,096	
100 01	Traffic Management	%		0.15	29,322	
100 02	Environmental management	%		0.01	1,955	
Estimated Construction Costs				£	265,853	100,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 16 – Hobleythick Lane to Fairfax Drive

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 620

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	4,783	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	30.00	60.00	1,800	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	285.00	28.00	7,980	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	568.00	90.00	51,120	
	Planing and resurfacing	m ²	229.00	10.00	2,290	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	95.00	25.00	2,375	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			200	
	Traffic Signals	Sum			150,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	21.00	1200.00	25,200	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turbing of verges and batters incl. topsoiling	m ²	2072.00	5.50	11,396	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	95.00	1000.00		95,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 257,144	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	51,429	
100 01	Traffic Management	%		0.15	38,572	
100 02	Environmental management	%		0.01	2,571	
Estimated Construction Costs					£ 349,716	95,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 17 – West Street-East Street

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m =

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	4,346	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	174.00	60.00	10,440	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			500	
	Traffic Signals	Sum			100,000	
1300	Road Lighting and Electrical Road lighting and electrical link	No	0.00	1200.00	0	
	Road lighting and electrical jct	No	14.00	1200.00	16,800	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	362.00	5.50	1,991	
xxxx	Bus Stop Real time bus shelters		2.00	50000.00	100,000	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 234,077	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	46,815	
100 01	Traffic Management	%		0.15	35,112	
100 02	Environmental management	%		0.01	2,341	
Estimated Construction Costs					£ 318,345	0

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 18 – West Street to Queensway

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 705

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	576	
300	Fencing and Barriers Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	0.00	10.00	0	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings Road Markings & Signs	Sum			0	
	Traffic Signals	Sum			0	
1300	Road Lighting and Electrical Road lighting and electrical link	No	24.00	1200.00	28,800	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping Turving of verges and batters incl. topsoiling	m ²	226.00	5.50	1,243	
xxxx	Bus Stop Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs item	item				
xxxx	SU Diversions for realigned C/W lengths	m	0.00	0.00		0
	Land Acquisition area required	m ²	0.00			
Sub Total				£	30,619	
100.00	Preliminaries Site Establishment / Disestablishment	%		0.20	6,124	
100 01	Traffic Management	%		0.15	4,593	
100 02	Environmental management	%		0.01	306	
Estimated Construction Costs				£	41,642	0

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Link/Jct Ref – 19 – Chichester Road

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 542

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0.00	-	5,309	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	0.00	25.00	0	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	0.00	65.00	0	
	Guardrail	m	0.00	60.00	0	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	0.00	28.00	0	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	0.00	90.00	0	
	Planing and resurfacing	m ²	4336.00	10.00	43,360	
	Anti-skid	m ²	0.00	15.00	0	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	0.00	30.00	0	
	Kerbing	m	0.00	25.00	0	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			500	
	Traffic Signals	Sum			200,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	18.00	1200.00	21,600	
	Road lighting and electrical jct	No	0.00	1200.00	0	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	0.00	5.50	0	
xxxx	Bus Stop					
	Real time bus shelters		0.00	50000.00	0	
xxxx	Structures Costs					
	item	item				
xxxx	SU Diversions for realigned C/W lengths	m	95.00	1000.00		95,000
	Land Acquisition area required	m ²	0.00			
Sub Total					£ 270,769	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	54,154	
100 01	Traffic Management	%		0.15	40,615	
100 02	Environmental management	%		0.01	2,708	
Estimated Construction Costs					£ 368,246	95,000

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Links and Junctions – Whole route length

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 9423

Item	Description	Unit	Quantity	Rate	Amount	Estimated Stats Cost
200	Site Clearance / Demolition (typically 2% cost of works)	Sum	0	-	88,190	
300	Fencing and Barriers					
	Erection of highway boundary fence	m	564	25.00	14,100	
400	Safety Fences / Barriers and Pedestrian Guard Rails					
	Traffic barrier	m	18	65.00	1,170	
	Guardrail	m	394	60.00	23,640	
500	Drainage and Service Ducts (included)					
600	Earthworks					
	Earthworks (Cut - Fill / Disposal) & Land Tax	m ³	10,281	28.00	287,868	
700	Pavements and Surfacing					
	Carriageway construction, drainage and auxiliary works	m ²	17,316	90.00	1,558,440	
	Planing and resurfacing	m ²	8,403	10.00	84,030	
	Anti-skid	m ²	640	15.00	9,600	
1100	Kerbs, Footways and Paved Areas					
	Footway and paved areas	m ²	6,500	30.00	195,000	
	Kerbing	m	3,775	25.00	94,375	
1200	Traffic Signs and Markings					
	Road Markings & Signs	Sum			11,100	
	Traffic Signals	Sum			1,100,000	
1300	Road Lighting and Electrical					
	Road lighting and electrical link	No	220	1200.00	264,000	
	Road lighting and electrical jct	No	84	1200.00	100,800	
3000	Landscaping					
	Turfing of verges and batters incl. topsoiling	m ²	6,282	5.50	34,551	
xxxx	Bus Stop					
	Real time bus shelters		8	50000.00	400,000	
xxxx	Structures Costs					
	item	item			100,000	
	Land Acquisition area required	m ²	730			
Sub Total				£	4,366,864	
100.00	Preliminaries					
	Site Establishment / Disestablishment	%		0.20	873,373	
100 01	Traffic Management	%		0.15	655,030	
100 02	Environmental management	%		0.01	43,669	
xxxx	SU Diversions for realigned C/W lengths	m	2,035	0.00		3,431,000
Estimated Construction Costs				£	5,938,935	3,431,000

Table E – Link and Junction Summary for Route 2 - Southend

Southend, Progress Road to Shoeburyness sert - Preliminary Costings
Route 2 Links and Junctions – Summary Sheet

Based on Drg. Nos. TM0022/S1/100/M/101 to 105

Price Base : Apr-09
Link Length linear m = 9423

Link / Jct Ref	Description	Cost Civils	Estimated Stats Cost	Total
1 Not Required	Rayleigh Downs Road - A127	0	0	0
2 Not Required	Rayleigh Downs Road to Progress Road	0	0	0
3 Not Required	A127 Progress Road - The Fairway	0	0	0
4	The Fairway to Bellhouse Road	788,699	594,000	1,382,699
5	Bellhouse Road to Bellhouse Lane	618,878	423,000	1,041,878
6	Bellhouse Lane to Rayleigh Road	1,719,025	1,674,000	3,393,025
7	A127 Rayleigh Road - Bridgewater Drive	271,470	153,000	424,470
8	Rayleigh Road to Southbourne Grove	272,522	63,000	335,522
9	Southbourne Grove - Prince Avenue	232,772	0	232,772
10	Prince Avenue to Southbourne Grove & Westbourne Grove	218,068	0	218,068
11	Southbourne Grove - Prittlewell Chase	211,337	117,000	328,337
12	Westbourne Grove - Prittlewell Chase	217,002	117,000	334,002
13	Westbourne Grove to Hospital on Prittlewell Chase	18,588	0	18,588
14	Hospital on Prittlewell Chase to Hobblythick Lane	26,773	0	26,773
15	Hobblythick Lane - Highfield Gardens	265,853	100,000	365,853
16	Hobblythick Lane to Fairfax Drive	349,716	95,000	444,716
17	West Street-East Street	318,345	0	318,345
18	West Street to Queensway	41,642	0	41,642
19	Chichester Road	368,246	95,000	463,246
TOTAL £		5,938,936	3,431,000	9,369,936

Notes:

- Costs do not include - Land / demolition / design / structure assessments / environmental survey or design work / supervision / safety audits / approvals in principal / consultation.
- Links to 50m of junction approaches.
- Junctions include 50m on approaches and extend to limits of design in side streets.
- Stats cost calculated at £1.8k/m or £1.0k/m, dependant upon High or Low impact.
- Links 1, 2 and 3 are not included within the Capital Cost estimate as they form part of a separate major scheme being progressed by Southend on Sea Borough Council.

Table F - Whole scheme costings

sert Route	Route Description	Cost Civils	Estimated Stats Cost	Total
1	Lakeside Bus terminus to East Mayne	24,852,159	9,327,800	34,179,959
2	Southend - Progress Road to Shoeburyness	5,938,936	3,431,000	9,369,936
TOTAL £		30,791,095	12,758,800	43,549,895

Notes:

- Costs do not include - Land / demolition / design / structure assessments / environmental survey or design work / supervision / safety audits / approvals in principal / consultation.
- Links to 50m of junction approaches.
- Junctions include 50m on approaches and extend to limits of design in side streets.
- Stats cost calculated at £1.8k/m or £1.0k/m, dependant upon High or Low impact.

3 Appendices

Appendix A: Independent Review by ATKINS

Notice

This document and its contents have been prepared and are intended solely for Essex County Council's information and use in relation to the SERT project.

ATKINS assumes no responsibility to any other party in respect of or arising out of or in connection with this document and/or its contents.

Document History

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SERT Cost Estimate Review

1.1 General

Information provided on the 23rd December

Conceptual Design Drawings @ 1:1000 scale for Routes T1, B1 and S1

Preliminary costings for whole route.

Further Information Provided on 30th December

C2 Stats returns

Costings taken from Conceptual Design Drawings (one page breakdown per junction or link)

COMMENTS

The estimates are obviously preliminary and only for budgeting purposes. The quantities have not been checked and the comments relate to the rates only.

1.2 100 Series

The percentage uplifts for Preliminaries, Traffic Management and Environmental Management seem to be adequate.

1.3 200 Series

The percentage uplift seems reasonable for the limited amount of site clearance. The demolition of a footbridge has been included in the Structures costs.

1.4 300 Series

The highway boundary fencing @ £25.00 per lin.m appears adequate for post and rail fencing.

1.5 400 Series

Pedestrian Guardrail @ £60.00 per lin.m appears adequate

Traffic Barrier @ £65.00 per lin.m appears adequate although no provision has been made for any terminals if required. This rate may be a little low if anything other than short foundations are required but as the quantity is small I would not change the rate.

1.6 500 Series

Drainage included in 700 Series

1.7 600 Series

Earthworks excavation and disposal @ £28.00 per cu.m appears to be under valued. Mouchel have used a rate applicable to the term contractor's in Essex. I would suggest a rate of £35.00 per cu.m would be more appropriate.

1.8 700 Series

Carriageway construction, drainage and auxiliary works. The assumed drainage works consist of moving existing gullies and utilising existing gully connections in areas of carriageway widening and only providing limited new drainage in areas of new carriageway.

No construction depths have been given so I have assumed a 450mm construction depth with 300mm of bituminous material consisting of 35mm s/c, 65mm DBM and 2 x 100mm Base. £90.00 per sq.m appears adequate assuming drainage is minimal and the bituminous materials are not unusual.

Planning and Surfacing @ £10.00 per sq.m assumed at 40mm inlay appears adequate but a rate of £12.00 per sq.m may be more appropriate.

Anti Skid @ £15.00 per sq.m appears adequate subject to standard colours and epoxy resin mix.

1.9 1100 Series

Footways and paved areas assumed to be 150mm construction for which £30.00 per sq.m appears adequate.

Kerbing @ £25.00 per lin.m appears to be adequate for standard HB Kerbs.

1.10 1200 Series

A lump sum assumed for road markings of re-aligned carriageways and junctions. As no quantities are given we cannot verify the lump sum

Traffic signals assumed as £25k for upgrading existing signals or pedestrian crossings and £50k (per arm) assumed for providing new signals. These figures appear high but it depends what has been assumed regarding ducting and electrical supplies. However, I would have used figures of £20k and £40k respectively.

1.11 1300 Series

The rate of £1200.00 per completed street light with electrical connection seems adequate for a standard 10 to 12m column provided feeder pillars are not required.

1.12 3000 Series

Landscaping @ £5.50 appears adequate.

1.13 Bus Stops

A rate of 50k per site inclusive of Shelter, Raised Kerb / footway, installation of RTPI. This seems reasonable providing there are no excessive communication link costs (Ntl gave us an unwelcome surprise on one scheme)

1.14 Structures

The item includes the demolition of a footbridge, the strengthening and backfilling of existing subways. As no breakdown is given we cannot verify the item cost.

1.15 Statutory Undertakers

1.15.1 Diversions and re-alignment/slewing of existing plant

From the C2 information provided the areas of conflict have been highlighted and lengths taken off of each drawing by Mouchel giving an overall length equivalent to the length affected by widened or new carriageway. However, there is no schedule of what SU plant is affected at each location. Without this it is not possible to estimate the costs.

Following Site investigation or further C3 information additional lengths may or may not be required and it is probable that the number of diversions will be reduced. What has been assumed is that all SU plant within the new carriageway works will be affected which in theory should be a worst case situation. As the exact type of cable or pipe affected has not been examined (as far as we know) there could be some high risk items. However, the total estimate of £14,143,500 is a considerable sum which will hopefully be sufficient.