

Weston Package Phase 1
Major Scheme Business Case

Appendix 6.1

Scheme Cost Estimates



West of England Partnership

Bath & North East
Somerset Council



North
Somerset
Council

South Gloucestershire
Council



South West RDA

1. Weston Package cost estimates as at March 2009: Preferred Scheme

Rev S

08-Apr

<i>prices in 2008 £000s</i>	Bridge	CAL	J21	Worle Station	Elmham Way	Queens way	Gateway	Drove RAB	Total
1. Preparation & Admin (Sep'09-Winter'11)									
Programme Management, Co-ordination & MSB Appraisal					1,194				1,194
Monitoring/evaluation Before					45				45
Sub-Total					1,239				1,239
Detailed Design before final approval	988	1,103	135	276	64	37	102	55	2,758
Surveys, Planning permissions, Orders & Inquiries	131	137	25	25	15	13	13	13	372
Preparation contingency	330	0	58	32	24	15	47	19	524
Procurement	42	44	21	21	4	4	21	4	163
Land acquisition / negotiation costs	921	0	0	0	9	75	0	30	1,035
Sub-Total	2,412	1,284	239	354	116	144	182	121	4,852
3. Land & Property estate values									
Land value requiring payment	37	0	0	0	26	275	0	100	438
Land value gifted	2,200	0	0	1,380	0	0	0	0	3,580
4. Construction (Winter'11-Winter'13)									
Programme Management and Co-ordination					1,492				1,492
Construction	10,573	8,822	1,749	1,565	649	385	2,007	905	26,655
Supervision	384	882	64	28	24	18	60	18	1,478
Sub-Total (Excluding PM and Coordination)	10,957	9,704	1,813	1,593	673	403	2,067	923	28,133
5. Other									
Monitoring/evaluation After					25				25
Quantified Risk Estimate					6,174				6,174
									45,934
Total cost at 2008 prices	22,124	11,333	2,397	3,672	1,160	1,167	2,594	1,489	45,934

1. Weston Package cost estimates as at March 2009: **Low Cost Scheme**

Rev S

08-Apr

prices in 2008 £000s		Bridge	CAL	J21	Worle Station	Elmham Way	Queens way	Gateway	Drove RAB		Total
1. Preparation & Admin (Sep'09-Winter'11)											
Programme Management, Co-ordination & MSB Appraisal					593						593
Monitoring/evaluation Before					40						40
Sub-Total					633						633
Detailed Design before final approval				135	276	64	37	102	55		668
Surveys, Planning permissions, Orders & Inquiries				25	25	15	13	13	13		104
Preparation contingency				58	32	24	15	47	19		194
Procurement				21	21	4	4	21	4		76
Land acquisition / negotiation costs				0	0	9	75	0	30		114
Sub-Total				239	354	116	144	182	121		1,156
3. Land & Property estate values											
Land value requiring payment				0	0	26	275	0	100		401
Land value gifted				0	1,380	0	0	0	0		1,380
4. Construction (Winter'11-Winter'13)											
Programme Management and Co-ordination					793						793
Construction				1,749	1,565	649	385	2,007	905		7,260
Supervision				64	28	24	18	60	18		212
Sub-Total (Excluding PM and Coordination)				1,813	1,593	673	403	2,067	923		7,472
5. Other											
Monitoring/evaluation After					20						20
Quantified Risk Estimate					1,117						1,117
											12,973
Total cost at 2008 prices				2,479	3,754	1,242	1,249	2,677	1,571		12,973

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (urban)	ha	£3,411.36	0.5	1,706
Fencing				
Timber 4 rail fence	m	£22.09	100	2,209
Earthworks				
Excavate acceptable material 5A -topsoil	m ³	£2.87	1100	3,157
Excavate acceptable material	m ³	£4.49	275	1,235
General Fill (imported material)	m ³	£25.44	3450	87,768
Topsailing	m ³	£15.00	1125	16,875
Disposal (off-site) of material	m ³	£22.00	1375	30,250
Carriageway				
Plane existing carriageway for benching	m ³	£6.48	2175	14,094
Type 1 sub-base – 350mm thick	m ³	£31.09	1150	35,754
Basecourse – 190mm DBM	m ²	£35.65	3050	108,733
Binder course – 55mm DBM	m ²	£12.48	3375	42,120
Surface course – 35mm TWCS	m ²	£9.49	3700	35,113
High friction surfacing	m ²	£19.25	230	4,428
Kerbing – type HB	m	£15.00	1150	17,250
Safety Barriers				
Single sided OBB	m	£43.09	1075	46,322
Short posts in concrete foundations	nr	£53.82	672	36,167
Terminal Sections	nr	£588.16	5	2,941
Drainage				
150mm dia. carrier drain	m	£62.26	100	6,226
Gullies	no	£400.00	30	12,000
Chambers 0-2m deep	no	£1,534.57	6	9,207
Chambers 2-4m deep	no	£3,634.41	2	7,269
Chambers 4-6m deep	no	£9,538.72	1	9,539
Signs & Lighting				
Signs – cost/ m2 carriageway	m ²	£3.50	3800	13,300
Street Lighting	no	£1,054.01	20	21,080
Structures				
Retaining wall and extention to culvert	sum			300,000
Miscellaneous				
Accommodation works (realigning footpath on north east quadrant etc.)	sum			25,000
Traffic signals (two junctions)	sum			160,000
Landscaping (linear metre)	m	£15.00	1000	15,000
Removal of existing and erection of new sign gantry	sum			40,000
Utilities	sum			100,000
Non-itemised work (20%)	sum			240,948
Sub-total				1,445,689
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	303,595
Grand total				1,749,283

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 2.5%.

Description	Total	Roundabout 1	Roundabout 2	Roundabout 3	Roundabout 4	Link Road Section 1	Link Road Section 2	Link Road Section 3	
Series 100 - Preliminaries 15%	£1,814,110.58								
Series 200 - Site Clearance	£63,008.99	£20,653.92	£1,900.16	£2,216.86	£25,570.29	£4,592.06	£1,108.43	£6,967.27	
Series 300 - Fencing	£116,345.00	£9,087.50	£10,147.50	£8,415.00	£12,667.50	£22,297.50	£10,980.00	£42,750.00	
Series 400 - Road Restraint Systems (Vehicle and Pedestrian)	£61,920.00	£17,880.00	£12,480.00	£15,600.00	£15,960.00	£0.00	£0.00	£0.00	
Series 500 - Drainage and Service Ducts	£746,872.92	£88,825.50	£84,076.00	£74,294.52	£122,955.96	£115,396.62	£57,428.16	£203,896.16	
Series 600 - Earthworks	£3,997,613.64	£761,375.29	£287,584.94	£258,965.55	£546,213.47	£1,037,545.75	£137,877.45	£968,051.17	
Series 700 - Pavements	£2,222,938.62	£262,650.72	£252,557.90	£207,436.60	£492,679.32	£367,524.00	£106,681.68	£533,408.40	
Series 1100 - Kerbs, Footways and Paved Areas	£1,434,166.89	£166,719.30	£133,139.73	£108,310.19	£198,187.24	£262,505.98	£115,821.84	£449,482.61	
Series 1200 - Traffic Signs and Road Markings	£312,414.46	£106,363.70	£76,960.40	£16,960.40	£77,852.72	£9,242.14	£7,229.14	£17,805.96	
Series 1300 - Road Lighting Columns and Brackets Series 1400 - Electrical Work for Road Lighting and Traffic Signs	£503,451.00	£56,199.00	£51,000.00	£34,790.00	£96,282.00	£81,600.00	£36,860.00	£146,720.00	
Series 2500 - Special Structures	£848,450.00	£12,000.00	£0.00	£287,000.00	£158,450.00	£24,000.00	£24,000.00	£343,000.00	
Series 2700 - Accommodation Works, Works for Statutory Undertakers, Provisional Sums and Prime Cost Items	£1,646,950.00	£810,900.00	£0.00	£0.00	£705,300.00	£25,000.00	£105,750.00	£0.00	
Series 3000 - Landscape and Ecology	£139,939.00	£5,461.00	£12,141.00	£10,217.00	£17,831.00	£22,424.00	£14,705.00	£57,160.00	
TOTAL	£13,908,181.10	£2,318,115.93	£921,987.64	£1,024,206.12	£2,469,949.50	£1,972,128.06	£618,441.70	£2,769,241.57	
CONTINGENCIES 5%	£695,409.05								
TOTAL CONSTRUCTION COSTS INCLUDING CONTINGENCIES	£14,603,590.15								
		Roundabout 1&4 series 200-3000 totals are	39.59%	% of the overall series 200-3000 total					

WESTON PACKAGE MSBC TOTAL CONSTRUCTION COST INCLUDING CONTINGENCIES (Excluding roundabout 1 & 4)	£8,822,001.14
WESTON PACKAGE DEVELOPER CONTRIBUTION TOTAL CONSTRUCTION COST INCLUDING CONTINGENCIES (Roundabout 1 & 4)	£5,781,589.01

Cross Railway Link Cost Estimate (Route A - Option 2)

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearance (open field)	ha	£1,104.80	3.5	£3,866.80
General site clearance (urban)	ha	£3,411.36	1.5	£5,117.04
Fencing				
Timber 4 rail fence	m	£22.09	1300	£28,717.00
Earthworks				
Excavate acceptable material 5A -topsoil	m ³	£2.87	4150	£11,910.50
Excavate acceptable material	m ³	£2.87	2000	£5,740.00
General Fill	m ³	£25.54	14025	£358,198.50
Topsoiling	m ³	£15.00	1175	£17,625.00
Disposal (on-site) of material	m ³	£2.84	8425	£23,927.00
Geotechnical Improvement				
Concrete deck over landfill area	m ²	£1,000.00	4440	£4,440,000.00
Load transfer platform	sum			£1,047,750.00
Provide, lay & remove surcharge	sum			£127,000.00
Band drains	sum			£19,000.00
Carriageway				
Remove existing carriageway	m ²	£6.05	1386	£8,385.30
Type 1 sub-base – 150mm thick	m ³	£31.09	1075	£33,421.75
Basecourse – 150mm DBM	m ²	£27.98	8700	£243,426.00
Binder course – 60mm DBM	m ²	£12.48	8700	£108,576.00
Surface course – 35mm TWCS	m ²	£9.49	8700	£82,563.00
Footway/ Cycleway	m ²	£21.83	2700	£58,941.00
Kerbing – type HB	m	£15.00	1750	£26,250.00
Precast concrete edgings	m	£12.00	775	£9,300.00
Safety Barriers				
Single sided OBB	m	£43.09	120	£5,170.80
Short posts in concrete foundations	nr	£53.82	52	£2,798.64
Terminal Sections	nr	£588.16	4	£2,352.64
Type 048 connections to bridge parapet	nr	£67.92	4	£271.68
Vehicle Parapet	m	£259.60	54	£14,018.40
Drainage				
225mm dia. carrier drain	m	£81.77	675	£55,194.75
Gullies	no	£400.00	45	£18,000.00
Chambers 0-2m deep	no	£1,534.57	7	£10,741.99
Chambers 2-4m deep	no	£3,634.41	5	£18,172.05
Chambers 4-6m deep	no	£9,538.72	1	£9,538.72
Signs & Lighting				
Signs – cost/ m2 carriageway	m ²	£2.50	8700	£21,750.00
Street Lighting	no	£1,054.01	50	£52,700.50
Structures				
Bridge over railway	sum			£800,000.00
Miscellaneous				
Accommodation works (new garden fences etc.)	sum			£0
Landscaping (linear metre)	m	£15.00	900	£13,500.00
Utilities	sum			£100,000.00
Traffic signals for 4 arm junction	nr	£80,000.00	2	£160,000.00
Non-itemised work (10%)	sum			794,393
Sub-total				8,738,318
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	1,835,047
Grand-total				10,573,364

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 15%.

-2 It is assumed that all excavated material will be disposed off within the boundary of the site.

Town Centre Gateway Improvements

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (urban)	ha	£3,411.36	2	6,823
Disconnect & remove lighting columns	no	£95.77	25	2,394
Disconnect & remove road gullies	no	£50.00	30	1,500
Earthworks				
Excavate acceptable material 5A -topsoil	m ³	£2.87	900	2,583
Excavate acceptable material	m ³	£2.87	5168	14,832
Topsoiling	m ³	£15.00	250	3,750
Break-out existing kerbs & edgings	m	£8.00	625	5,000
Break-out existing carriageway	m ²	£6.05	600	3,630
Break-out existing footway	m ²	£4.03	625	2,519
Disposal (off-site) of material	m ³	£22.00	6068	133,496
Carriageway				
Plane existing carriageway for benching	m ³	£6.48	150	972
Type 1 sub-base – 350mm thick	m ³	£31.09	3405	105,861
Basecourse – 190mm DBM	m ²	£35.65	9150	326,198
Binder course – 55mm DBM	m ²	£12.48	9150	114,192
Surface course – 35mm TWCS	m ²	£9.49	9150	86,834
Kerbing – type HB	m	£15.00	2100	31,500
Precast concrete edgings	m	£12.00	475	5,700
Footway/Cycleway	m ²	£21.83	1350	29,471
Drainage				
225mm dia. Carrier drain	m	£81.77	720	58,874
Gullies	no	£400.00	50	20,000
Chambers 0-2m deep	no	£1,534.57	8	12,277
Chambers 2-4m deep	no	£3,634.41	3	10,903
Signs & Lighting				
Signs/Markings - cost/m2 carriageway	m ²	£3.50	12000	42,000
Street Lighting	no	£1,054.01	25	26,350
Miscellaneous				
Pedestrian crossings	nr	£30,000.00	2	60,000
Changes to existing signals & additional signals at Winterstoke rbt + signals on Marchfields Way	sum			100,000
Landscaping	sum			50,000
Utilities	sum			250,000
Non-itemised work (10%)	sum			150,766
Sub-total				1,658,424
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	348,269
Grand-total				2,006,693

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 2.5%.

-2 It is assumed that all other excavated material will be disposed off site to a tip within 1km of site. Lanfill tax and tipping charges apply.

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (urban)	ha	£3,411.36	0.5	1,706
Disconnect & remove lighting columns	no	£95.77	4	383
Disconnect & remove road gullies	no	£50.00	14	700
Earthworks				
Excavate acceptable & contaminated material	m ³	£4.49	2250	10,103
Break-out existing kerbs & edgings	m	£8.00	1000	8,000
Break-out existing carriageway	m ²	£6.05	2275	13,764
Break-out existing footway	m ²	£4.03	700	2,821
Disposal (off-site) of material	m ³	£22.00	1125	24,750
Disposal (off-site) of contaminated material	m ³	£100.00	1125	112,500
Topsolling	m ³	£15.00	150	2,250
Carriageway				
Plane existing carriageway for benching	m ³	£6.48	70	454
Type 1 sub-base – 350mm thick	m ³	£31.09	1275	39,640
Basecourse – 190mm DBM	m ²	£35.65	2950	105,168
Binder course – 55mm DBM	m ²	£12.48	3300	41,184
Surface course – 35mm TWCS	m ²	£9.49	3300	31,317
High friction surfacing	m ²	£19.25	350	6,738
Kerbing – type HB	m	£15.00	800	12,000
Precast concrete edgings	m	£12.00	275	3,300
Footway/Cycleway	m ²	£21.83	775	16,918
Paving to new traffic islands	m ²	£50.00	400	20,000
Tactile paving to new pedestrian crossings	m ²	£50.00	60	3,000
Drainage				
Gullies	no	£400.00	14	5,600
Signs & Lighting				
Traffic signs and road markings	m ²	£3.50	3300	11,550
Street Lighting	no	£1,054.01	4	4,216
Miscellaneous				
Pedestrian crossings	nr	£30,000.00	5	150,000
Landscaping	sum			2,000
Utilities	sum			50,000
Non-itemised work (10%)	sum			68,006
Sub-total				748,066
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	157,094
Grand-total				905,159

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 2.5%.

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (trees & shrubs)	ha	£2,297.60	0.5	1,149
Fencing				
Boundary Fence (1.8m chain link)	m	£14.35	500	7,175
Earthworks				
Excavate acceptable material 5A -topsoil	m ³	£2.87	3025	8,682
Excavate acceptable material	m ³	£2.87	3450	9,902
General Fill (site won material)	m ³	£1.15	450	518
Topsoiling	m ³	£15.00	850	12,750
Break-out existing hardstanding	m ²	£21.62	450	9,729
Disposal (off-site) of material	m ³	£22.00	6475	142,450
Allowance to deal with contamination from the adjacent railway line	sum			20,000
Pavement Construction				
Type 1 sub-base – 250mm thick	m ³	£31.09	3200	99,488
Basecourse – 150mm DBM	m ²	£27.98	1675	46,867
Binder course – 65mm DBM	m ²	£13.85	1675	23,199
Surface course – 35mm TWCS	m ²	£9.49	1675	15,896
Basecourse – 100mm DBM	m ²	£18.66	11075	206,660
Binder course – 65mm DBM	m ²	£13.85	11075	153,389
Surface course – 25mm DBM	m ²	£8.69	11075	96,242
Kerbs Footways & Paved Areas				
Kerbing – type HB	m	£15.00	400	6,000
Precast concrete edgings	m	£12.00	250	3,000
Footway/Cycleway	m ²	£21.83	625	13,644
Drainage				
Channel drain	m	£35.69	100	3,569
Kerb drain	m	£117.99	150	17,699
Hydrobreak manhole	nr	£3,000.00	2	6,000
Chambers 0-2m deep	no	£1,534.57	7	10,742
225mm dia. Carrier drain	m	£81.77	225	18,398
Gullies	no	£400.00	5	2,000
Petrol Interceptor	no	£5,000.00	2	10,000
Signs & Lighting				
Signs/Markings - cost/m2 carriageway	sum			10,000
Street Lighting	no	£1,054.01	10	10,540
Miscellaneous				
CCTV Camera	sum			5,000
Landscaping	sum			25,000
Parking machines	sum			5,000
Utilities	sum			25,000
Improved station platform shelters	sum			100,000
New bus shelters & stops to north of station	sum			50,000
Non-itemised work (10%)	sum			117,568
Sub-total				1,293,253
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	271,583
Grand total				1,564,836

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 5%.

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (urban)	ha	£3,411.36	0.5	1,706
Disconnect & remove lighting columns	no	£95.77	5	479
Earthworks				
Excavate acceptable material incl topsoil	m ³	£4.49	670	3,008
Topsailing	m ³	£15.00	20	300
Break-out existing kerbs & edgings	m	£8.00	230	1,840
Break-out existing carriageway	m ²	£6.05	550	3,328
Break-out existing footway	m ²	£4.03	375	1,511
Disposal (off-site) of material	m ³	£22.00	670	14,740
Carriageway				
Plane existing carriageway for benching	m ³	£6.48	750	4,860
Type 1 sub-base – 350mm thick	m ³	£31.09	500	15,545
Basecourse – 190mm DBM	m ²	£35.65	1300	46,345
Binder course – 55mm DBM	m ²	£12.48	1300	16,224
Surface course – 35mm TWCS	m ²	£9.49	2050	19,455
Kassel Kerbs	m	£60.39	50	3,020
Kerbing – type HB	m	£15.00	300	4,500
Precast concrete edgings	m	£12.00	25	300
Footway/Cycleway	m ²	£21.83	25	546
Drainage				
225mm dia. Carrier drain	m	£81.77	85	6,950
Gullies	no	£400.00	7	2,800
Chambers 2-4m deep	no	£3,634.41	2	7,269
Signs & Lighting				
Signs/Markings - cost/m2 carriageway	m ²	£3.50	2050	7,175
Street Lighting	no	£1,054.01	5	5,270
Miscellaneous				
Landscaping	sum			2,000
Make good footpaths	sum			5,000
Bus Shelters	sum			10,000
Move public art	sum			50,000
Automated bollards	sum			30,000
Utilities	sum			25,000
Non-itemised work (10%)	sum			28,917
Sub-total				318,087
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	66,798
Grand-total				384,885

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 2.5%.

Description	Unit	Rate	Quantity	Cost (£)
Demolition & Site Clearance				
General site clearnace (urban)	ha	£3,411.36	1	3,411
Disconnect & remove lighting columns	nr	£95.77	10	958
Disconnect & remove road gullies	no	£50.00	15	750
Earthworks				
Excavate acceptable material 5A - topsoil	m ³	£4.49	100	449
Excavate acceptable material	m ³	£4.49	1250	5,613
Topsoiling	m ³	£15.00	75	1,125
Break-out existing kerbs & edgings	m	£8.00	550	4,400
Break-out existing carriageway	m ²	£6.05	2000	12,100
Disposal (off-site) of material	m ³	£22.00	1350	29,700
Carriageway				
Type 1 sub-base – 350mm thick	m ³	£31.09	715	22,229
Basecourse – 190mm DBM	m ²	£35.65	1630	58,110
Binder course – 55mm DBM	m ²	£12.48	1630	20,342
Surface course – 35mm TWCS	m ²	£9.49	1630	15,469
Kerbing – type HB	m	£15.00	750	11,250
Precast concrete edgings	m	£12.00	250	3,000
Footway/Cycleway	m ²	£21.83	975	21,284
Paving to pedestrian refuges	m ²	£50.00	275	13,750
Drainage				
Gullies	no	£400.00	15	6,000
Signs & Lighting				
Signs/Markings - cost/m2 carriageway	m ²	£3.50	5500	19,250
Street Lighting	no	£1,054.01	10	10,540
Miscellaneous				
Signalised Junctions inc pedestrian crossings	nr	£100,000.00	1	100,000
Amendments to existing signalised junction & pedestrian crossing	sum			75,000
Landscaping	sum			3,000
Utilities	sum			50,000
Non-itemised work (10%)	sum			48,773
Sub-total				536,503
Overhead Items				
Insurance, Preliminaries, Overheads, Margin			21%	112,666
Grand-total				649,168

-1 The cost does not include 'capping' of the underlying material as it is assumed that the existing ground or fill material used will achieve a CBR value in excess of 2.5%.

Description	Unit	Rate	Spon's page no
Demolition & Site Clearance			
General site clearnace (open field)	ha	£1,104.80	357
General site clearnace (urban)	ha	£3,411.36	357
General site clearnace (trees & shrubs)	ha	£2,297.60	357
Disconnect & remove lighting columns	no	£95.77	359
Fencing			
Timber 4 rail fence	m	£22.09	362
Earthworks			
Excavate acceptable material 5A -topsoil	m ³	£2.87	391
Excavate acceptable material	m ³	£4.49	391
Break-out existing hardstanding	m ²	£21.62	394
General Fill (imported material)	m ³	£25.44	392
Carriageway			
Plane existing carriageway for benching	m ³	£6.48	412
Type 1 sub-base – 350mm thick	m ³	£31.09	408
Basecourse – 190mm DBM	m ²	£35.65	409
Binder course – 55mm DBM	m ²	£12.48	409
High friction surfacing	m ²	£19.25	411
Safety Barriers			
Single sided OBB	m	£43.09	365
Short posts in concrete foundations	nr	£53.82	365
Terminal Sections	nr	£588.16	365
Type 048 connections to bridge parapet	nr	£67.92	369
Vehicle Parapet	m	£259.60	368
Drainage			
Channel drain	m	£35.69	372
Kerb drain	m	£117.99	372
225mm dia. Carrier drain	m	£81.77	414
150mm dia. carrier drain	m	£62.26	415
Chambers 0-2m deep	no	£1,534.57	381
Chambers 2-4m deep	no	£3,634.41	383
Chambers 4-6m deep	no	£9,538.72	385

Other rates

Version 1

10-Mar-09

Description	Unit	Rate	Source
Demolition & Site Clearance			
Disconnect & remove road gullies	no	£50.00	C Sweett
Break-out existing carriageway	m ²	£6.05	Halcrow
Break-out existing footway	m ²	£4.03	Halcrow
Fencing			
Boundary Fence (1.8m chain link)	m	£14.35	Halcrow
Earthworks			
Break-out existing kerbs & edgings	m	£8.00	C Sweett
General Fill (site won material)	m ³	£1.15	Halcrow
Topsoiling	m ³	£15.00	C Sweett
Disposal (off-site) of material	m ³	£22.00	C Sweett
Disposal (off-site) of contaminated material	m ³	£100.00	C Sweett
Carriageway			
Surface course – 35mm TWCS	m ²	£9.49	Halcrow
High friction surfacing	m ²	£19.25	
Kerbing – type HB	m	£15.00	C Sweett
Precast concrete edgings	m	£12.00	C Sweett
Footway/Cycleway	m ²	£21.83	Halcrow
Paving to new traffic islands	m ²	£50.00	C Sweett
		£50.00	C Sweett
Tactile paving to new pedestrian crossings	m ²		
Drainage			
Gullies	no	£400.00	C Sweett
Hydrobreak manhole	nr	£3,000.00	Halcrow
Petrol Interceptor	no	£5,000.00	Halcrow
Signs & Lighting			
Signs – cost/ m2 carriageway	m ²	£3.50	Halcrow
Street Lighting	no	£1,054.01	Halcrow