



**Basic budget construction costings calculated using SPONS 2016. Budget construction costings include for gang hrs, labour plant and materials where applicable.**

**We would note that as detailed design progresses budget construction costings may vary accordingly. We would also note that this construction cost estimate does not include costings for design fees, traffic management, temporary works, all results from site investigations that are not stated in cost breakdown including capping material, site investigations resulting in the detection of invasive species (allowance for site clearance of invasive species on Route Option A only) or further services, service protection/ realignment (provisional sums included below) and land purchase. There may be other items that are not known or fully appreciated that have not been considered in this cost estimate. In line with standard practise an optimism bias of 44% has been applied to this cost estimate.**

**All construction costings must be checked & verified by a qualified cost consultant.**

<u>Route Options</u>	Total Carried Forward	General Contingencies 15%	Preliminaries 12%	Optimism Bias (Standard Civil Engineering 44%)	Total
Route Option A	£ 507,952.14	£ 76,192.82	£ 60,954.26	£ 223,498.94	£ 868,598.16
Route Option B (C2 Included)	£ 901,298.45	£ 135,194.77	£ 108,155.81	£ 396,571.32	£ 1,541,220.35
Route Option C (C1 & C2 Included)	£ 422,484.97	£ 63,372.75	£ 50,698.20	£ 185,893.39	£ 722,449.30
<b>Refer to Option A, Option B &amp; Option C for detailed costing breakdown</b>					

Bridge of Dee West Active Travel Options Appraisal  
 Cost Estimates



<b>Route Option C Breakdown</b>									
<b>Route Option C1, area between Garthdee Road and Deeside Way</b>	£	268,903.66	£	40,335.55	£	32,268.44	£	118,317.61	£ <b>459,825.27</b>
<b>Route Option C2, Garthdee Road</b>	£	153,581.31	£	23,037.20	£	18,429.76	£	67,575.77	£ <b>262,624.03</b>
<b>Route Option C3, Widening of the Deeside Way Excluding Resurfacing (Deeside Way length equals 1145m)</b>	£	259,213.72	£	38,882.06	£	31,105.65	£	114,054.04	£ <b>443,255.46</b>
<b>Route Option C4, Widening of the Deeside Way Including Resurfacing (Deeside Way length equals 1220m for resurfacing and 1145m for widening)</b>	£	318,822.56	£	47,823.38	£	38,258.71	£	140,281.93	£ <b>545,186.57</b>

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option A**



Item No	Description	Unit	Quantity	Rate	Price
	<b>Route Option A</b>				
	<b>SITE CLEARANCE</b>				
	Removal of trees	nr	100	£ 43.25	£ 4,325.00
	General vegetation clearance	ha	0.53	£1,224.00	£ 643.82
	Invasive plant species (site clearance only)	ha	0.40	£3,373.65	£ 1,349.46
	Remove and store lighting column off site	nr	8	£ 130.03	£ 1,040.24
	Remove and tip permanent bollard off site	nr	1	£ 50.00	£ 50.00
	Remove and store bespoke sign off site	nr	2	£ 200.00	£ 400.00
	Remove and store sign off site	nr	1	£ 55.50	£ 55.50
	Remove and store pair of pedestrian crossing lights off site	nr	3	£ 55.50	£ 166.50
	Removal of existing pedestrian fencing	m	26.50	£ 35.00	£ 927.50
	<b>EXCAVATION</b>				
	Road Construction	m3	16.69	£ 63.68	£ 1,062.50
	Excavate road kerb	m	100.40	£ 7.88	£ 791.15
	Excavate edging kerb	m	180.80	£ 6.03	£ 1,090.22
	Footway Construction	m3	126.00	£ 63.68	£ 8,023.68
	Topsoil (at depth of 0.25m)	m3	820.75	£ 3.22	£ 2,642.82
	Sign poles foundations - Topsoil (at depth of 0.25m)	m3	1.44	£ 3.20	£ 4.61
	Sign poles foundations	m3	2.02	£ 6.32	£ 12.74
	<b>DISPOSAL</b>				
	Road Construction	m3	16.69	£ 66.98	£ 1,117.56
	Road kerb	m	100.40	£ 2.69	£ 270.08
	Edging kerb	m	180.80	£ 2.69	£ 486.35
	Footway Construction	m3	126.00	£ 66.98	£ 8,439.48
	Top soil	m3	820.75	£ 64.54	£ 52,971.21
	Sign pole foundations - topsoil	m3	1.44	£ 64.54	£ 92.94
	Sign pole foundations	m3	2.02	£ 65.76	£ 132.57
	<b>ROAD CONSTRUCTION FOR LONGITUDINAL TRENCH REINSTATEMENT</b>				
	Basecourse; 140mm AC dense base	m2	41.00	£ 27.05	£ 1,109.05
	Binder; 55mm AC	m2	82.00	£ 13.20	£ 1,082.40
	Surface;45mm HRA with 20mm nominal chippings	m2	125.00	£ 17.57	£ 2,196.25
	<b>FOOTWAY CONSTRUCTION</b>				
	Subbase; Type 1, 180mm deep	m3	591	£ 38.14	£ 22,538.45
	Bitumen Macadam binder course 40mm thick	m2	3301	£ 13.20	£ 43,573.20
	Surfacing 30mm HRA with 8mm coated chippings	m2	3301	£ 17.46	£ 57,635.46

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option A**



Item No	Description	Unit	Quantity	Rate	Price
	Regulating material at 75mm	m2	18	£ 19.46	£ 350.28
	Re-surfacing of existing footway; 30mm HRA with 8mm coated chippings	m2	420	£ 17.46	£ 7,333.20
	Tactile (assuming 2.24m2 per singular pedestrian crossing)	m2	31.40	£ 68.00	£ 2,135.20
	<b>KERBING</b>				
	Road Kerb - Dropped Kerb	m	54.20	£ 37.14	£ 2,012.99
	Road Kerb - curved ne 12m radius	m	59.30	£ 21.50	£ 1,274.95
	Edging	m	2189.00	£ 9.05	£ 19,810.45
	<b>ROAD MARKINGS</b>				
	Thermoplastic screed or spray; triangles in reflectorized white, 1.6m high	nr	8.00	£ 13.14	£ 105.12
	White lining	m	0.00	£ 1.57	£ -
	Yellow lining	m	44.00	£ 1.95	£ 85.80
	<b>SIGNAGE TO BE PROVIDED AT NEW JUNCTIONS/ROUTES</b>				
	Double sided signs	nr	4.00	£ 121.17	£ 484.68
	Backfill for sign poles	m3	0.51	£ 24.69	£ 12.64
	Concrete foundations to signage	m3	1.02	£ 129.87	£ 132.99
	Extra for fixing singly to one face only	nr	0.00	£ 1.14	£ -
	Galvanized steel permanent bollard	nr	2.00	£ 198.79	£ 397.58
	<b>REMOVE FROM STORE AND RE-ERECT</b>				
	Street lighting column	nr	8.00	£ 363.36	£ 2,906.88
	Bespoke sign	nr	2.00	£ 200.00	£ 400.00
	Traffic sign	nr	1.00	£ 143.91	£ 143.91
	<b>LANDSCAPING</b>				
	Turfing	m2	1475.00	£ 12.18	£ 17,965.50
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	1475.00	£ 0.18	£ 265.50
	<b>ABNORMALS</b>				
	<b>Earthworks</b>				
	General vegetation clearance	ha	0.28	£1,224.00	£ 343.94
	Excavate Topsoil at 250mm	m3	703.00	£ 3.22	£ 2,263.66
	Excavate/shaping of existing surface (0.25 - 0.5m deep)	m3	703.00	£ 3.22	£ 2,263.66
	Disposal of Excavated material	m3	703.00	£ 65.76	£ 46,229.28
	Engineered fill reinstatement	m3	703.00	£ 27.45	£ 19,297.35
	Top soil reinstatement at 250mm thick	m3	703.00	£ 4.22	£ 2,966.66
	Turfing	m2	2812.00	£ 12.87	£ 36,190.44
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	2812.00	£ 0.18	£ 506.16
	Timber Fencing	m	453.60	£ 25.37	£ 11,507.83

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option A**



Item No	Description	Unit	Quantity	Rate	Price
	Signalised crossing; Toucan crossing	nr	1.00	£ 28,000.00	£ 28,000.00
	Signalised crossing with central reserve; Toucan crossing	nr	1.00	£ 45,000.00	£ 45,000.00
	Steps	Item	1.00	£ 43,560.00	£ 43,560.00
	<b>UTILITY PROTECTION/RELOCATION</b>				
	Scottish Water, combined service line reinforcement/protection	m	3.00	£ 100.00	£ 300.00
	Scottish Water, surface water service line reinforcement/protection	m	38.90	£ 100.00	£ 3,890.00
	Scottish Water, distribution main reinforcement/protection	m	16.30	£ 100.00	£ 1,630.00

<b>Route Option A Total from Spon's</b>	<b>£</b>	<b>513,997.39</b>
Regional Variation in rates (Scotland 0.93)	£	478,017.58
Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise)	£	491,113.95
Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise)	£	500,936.23
Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise)	£	507,484.41
Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise)	£	507,952.14
<b>Total Carried Forward</b>	<b>£</b>	<b>507,952.14</b>
General Contingencies 15%	£	76,192.82
Preliminaries 12%	£	60,954.26
Optimism Bias (Standard Civil Engineering 44%)	£	223,498.94

**Total** **£** **868,598.16**

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option B**



Item N	Description	Unit	Quantity	Rate	Price
	<b>Route Option B</b>				
	<b>SITE CLEARANCE</b>				
	General vegetation clearance	ha	0.34	£1,224.00	£ 416.16
	Removal of trip rail	m	260.00	£ 17.74	£ 4,612.40
	Removal of existing pedestrian fencing	m	131.80	£ 35.00	£ 4,613.00
	Remove and store lighting column off site	nr	18	£ 130.03	£ 2,340.54
	Remove and store bespoke sign off site	nr	3	£ 200.00	£ 600.00
	Remove and store pair of pedestrian crossing lights off site	nr	4	£ 55.50	£ 222.00
	Remove traffic sign to tip off site	nr	2	£ 74.58	£ 149.16
	Remove traffic directional sign and store off site	nr	3	£ 500.00	£ 1,500.00
	Remove light bollard to tip off site	nr	7	£ 130.03	£ 910.21
	Remove bus shelter to store off site	nr	3	£ 500.00	£ 1,500.00
	Remove Litter bin to store off site	nr	1	£ 200.00	£ 200.00
	Remove stones from roundabout to store off site	m2	35	£ 100.00	£ 3,500.00
	<b>EXCAVATION</b>				
	Road Construction	m3	280.15	£ 63.68	£ 17,839.63
	Excavate road kerb	m	1147.00	£ 7.88	£ 9,038.36
	Excavate edging kerb	m	788.00	£ 6.03	£ 4,751.64
	Footway Construction	m3	276.98	£ 63.68	£ 17,638.09
	Topsoil (at depth of 0.25m)	m3	666.00	£ 3.22	£ 2,144.52
	Sign poles foundations - Topsoil (at depth of 0.25m)	m3	5.12	£ 3.20	£ 16.38
	Sign poles foundations	m3	7.17	£ 6.32	£ 45.30
	<b>DISPOSAL</b>				
	Road Construction	m3	280.15	£ 66.98	£ 18,764.11
	Road kerb	m	1147.00	£ 2.69	£ 3,085.43
	Edging kerb	m	788.00	£ 2.69	£ 2,119.72
	Footway Construction	m3	276.98	£ 66.98	£ 18,552.12
	Top soil	m3	666.00	£ 64.54	£ 42,983.64
	Sign pole foundations - topsoil	m3	5.12	£ 64.54	£ 330.44
	Sign pole foundations	m3	7.17	£ 65.76	£ 471.37
	<b>ROAD CONSTRUCTION FOR LONGITUDINAL TRENCH REINSTATEMENT</b>				
	Basecourse; 140mm AC dense base	m2	447.00	£ 27.05	£ 12,091.35
	Binder; 55mm AC	m2	863.00	£ 13.20	£ 11,391.60
	Surface;45mm HRA with 20mm nominal chippings	m2	1285.00	£ 17.57	£ 22,577.45
	<b>ROAD CONSTRUCTION FOR SPEED BUMP</b>				
	Binder; 75mm AC	m2	40.00	£ 16.47	£ 658.80
	Surface;45mm HRA with 20mm nominal chippings	m2	40.00	£ 17.57	£ 702.80
	<b>ROAD CONSTRUCTION FOR RAISED TABLE</b>				
	Binder for ramp construction; 20-75mm AC	m2	93.00	£ 16.47	£ 1,531.71
	Binder; 75mm AC	m2	1063.00	£ 16.47	£ 17,507.61

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option B**



Item N	Description	Unit	Quantity	Rate		Price
	Surface;45mm HRA with 20mm nominal chippings	m2	1063.00	£	17.57	£ 18,676.91
	<b>CYCLEWAY CONSTRUCTION</b>					
	Subbase; Type 1, 130mm deep	m3	312	£	36.94	£ 11,520.48
	Bitumen Macadam binder course 40mm thick	m2	3116	£	13.20	£ 41,131.20
	Surfacing 30mm HRA with 8mm coated chippings	m2	3116	£	17.46	£ 54,405.36
	Regulating Material at 25mm	m2	717.00	£	9.48	£ 6,797.16
	<b>FOOTWAY CONSTRUCTION</b>					
	Subbase; Type 1, 180mm deep	m3	280	£	38.14	£ 10,689.12
	Bitumen Macadam binder course 40mm thick	m2	2159	£	13.20	£ 28,498.80
	Surfacing 30mm HRA with 8mm coated chippings	m2	2159	£	17.46	£ 37,696.14
	Regulating material at 75mm	m2	582	£	19.46	£ 11,325.72
	Re-surfacing of existing footway; 30mm HRA with 8mm coated chippings	m2	1488	£	17.46	£ 25,980.48
	50-75mm dia cobbled paving	m2	15	£	55.51	£ 832.65
	Tactile (assuming 4.8m2 per singular cyclist crossing and 2.24m2 per singular pedestrian crossing)	m2	264.00	£	68.00	£ 17,952.00
	<b>KERBING</b>					
	Road Kerb - Dropped Kerb	m	134.00	£	37.14	£ 4,976.76
	Road Kerb - curved ne 12m radius	m	2942.00	£	21.50	£ 63,253.00
	Edging	m	764.00	£	9.05	£ 6,914.20
	<b>ROAD MARKINGS</b>					
	Thermoplastic screed or spray; triangles in reflectorized white, 1.6m high	nr	22.00	£	13.14	£ 289.08
	6m long arrow; straight	nr	5.00	£	31.52	£ 157.60
	6m long arrow; turning	nr	2.00	£	31.52	£ 63.04
	6m long arrow; double headed	nr	2.00	£	44.13	£ 88.26
	100mm wide; 2m line and 7m gap	m	213.00	£	0.90	£ 191.70
	60mm wide; 0.6m line and 0.6m gap	m	24.20	£	0.84	£ 20.33
	White lining	m	170.00	£	1.57	£ 266.90
	Yellow lining	m	1041.00	£	1.95	£ 2,029.95
	<b>SIGNAGE TO BE PROVIDED AT NEW JUNCTIONS/ROUTES</b>					
	Double sided signs	nr	20.00	£	121.17	£ 2,423.40
	Backfill for sign poles	m3	4.10	£	24.69	£ 101.23
	Concrete foundations to signage	m3	8.20	£	129.87	£ 1,064.93
	Extra for fixing singly to one face only	nr	9.00	£	1.14	£ 10.26
	Standard internally illuminated traffic bollard	nr	6.00	£	463.56	£ 2,781.36
	<b>REMOVE FROM STORE AND RE-ERECT</b>					
	Street lighting column	nr	18.00	£	363.36	£ 6,540.48
	Bespoke sign	nr	3.00	£	200.00	£ 600.00
	Traffic directional sign	nr	3.00	£	1,000.00	£ 3,000.00

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option B**



Item N	Description	Unit	Quantity	Rate	Price
	Litter Bin	nr	1.00	£ 200.00	£ 200.00
	Bus Shelter	nr	3.00	£ 1,000.00	£ 3,000.00
	Stones for roundabout centre reserve	m2	35.00	£ 100.00	£ 3,500.00
	<b>LANDSCAPING</b>				
	Turfing	m2	787.00	£ 12.18	£ 9,585.66
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	787.00	£ 0.18	£ 141.66
	<b>ABNORMALS</b>				
	Signalised crossing; Toucan crossing	nr	1.00	£ 28,000.00	£ 28,000.00
	Signalised crossing with central reserve; Toucan crossing	nr	1.00	£ 45,000.00	£ 45,000.00
	Pedestrian guard rail	m	4.10	£ 96.01	£ 393.64
	<b>UTILITY PROTECTION/RELOCATION</b>				
	BT Service line reinforcement/protection (excluding fibre-optic chambers)	m	453.20	£ 100.00	£ 45,320.00
	Scottish Water, PFT sewer line reinforcement/protection	m	44.00	£ 100.00	£ 4,400.00
	Scottish Water, surface water service line reinforcement/protection	m	6.00	£ 100.00	£ 600.00
	Scottish Water, distribution main reinforcement/protection	m	648.00	£ 100.00	£ 64,800.00
	SSE high voltage service line reinforcement/protection	m	179.00	£ 250.00	£ 44,750.00
	SSE low voltage service line reinforcement/protection	m	24.00	£ 250.00	£ 6,000.00
	SGN medium pressure service line reinforcement/protection	m	285.00	£ 250.00	£ 71,250.00

**Route Option B Total from Spon's                   £912,025.01**

Regional Variation in rates (Scotland 0.93)	£	848,183.26
Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise)	£	871,421.15
Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise)	£	888,849.58
Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise)	£	900,468.53
Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise)	£	901,298.45

<b>Total Carried Forward</b>	<b>£</b>	<b>901,298.45</b>
General Contingencies 15%	£	135,194.77
Preliminaries 12%	£	108,155.81
Optimism Bias (Standard Civil Engineering 44%)	£	396,571.32

**Total   £   1,541,220.35**



**BODW Options Appraisal Cost Estimate -  
Route Option C1, Between Garthdee Road The Deeside Way**



Item Number	Description	Unit	Quantity	Rate	Price
	<b>Route Option C1</b>				
	<b>SITE CLEARANCE</b>				
	Removal of trees	nr	30	£ 43.25	£ 1,297.50
	General vegetation clearance	ha	0.36	£1,224.00	£ 436.97
	Removal of existing fencing	m	10.60	£ 17.74	£ 188.04
	Remove and store lighting column off site	nr	14	£ 130.03	£ 1,820.42
	<b>EXCAVATION</b>				
	Road Construction	m3	2.94	£ 63.68	£ 186.90
	Excavate road kerb	m	19.20	£ 7.88	£ 151.30
	Excavate edging kerb	m	74.00	£ 6.03	£ 446.22
	Footway Construction	m3	4.50	£ 63.68	£ 286.56
	Topsoil (at depth of 0.25m)	m3	582.75	£ 3.22	£ 1,876.46
	Sign poles foundations - Topsoil (at depth of 0.025m)	m3	1.44	£ 3.20	£ 4.61
	Sign poles foundations	m3	2.02	£ 6.32	£ 12.74
	<b>DISPOSAL</b>				
	Road Construction	m3	2.94	£ 66.98	£ 196.59
	Road kerb	m	19.20	£ 2.69	£ 51.65
	Edging kerb	m	74.00	£ 2.69	£ 199.06
	Footway Construction	m3	4.50	£ 66.98	£ 301.41
	Top soil	m3	582.75	£ 64.54	£ 37,610.69
	Sign pole foundations - topsoil	m3	1.44	£ 64.54	£ 92.94
	Sign pole foundations	m3	2.02	£ 65.76	£ 132.57
	<b>ROAD CONSTRUCTION FOR LONGITUDINAL TRENCH REINSTATEMENT</b>				
	Basecourse; 140mm AC dense base	m2	8.00	£ 27.05	£ 216.40
	Binder; 55mm AC	m2	15.00	£ 13.20	£ 198.00
	Surface;45mm HRA with 20mm nominal chippings	m2	22.00	£ 17.57	£ 386.54
	<b>FOOTWAY CONSTRUCTION</b>				
	Subbase; Type 1, 180mm deep	m3	388	£ 38.14	£ 14,780.78
	Bitumen Macadam binder course 40mm thick	m2	2153	£ 13.20	£ 28,419.60
	Surfacing 30mm HRA with 8mm coated chippings	m2	2153	£ 17.46	£ 37,591.38
	Re-surfacing of existing footway; 30mm HRA with 8mm coated chippings	m2	150	£ 17.46	£ 2,619.00
	Tactile (assuming 4.8m2 per singular cyclist crossing and 2.24m2 per singular pedestrian crossing)	m2	13.44	£ 68.00	£ 913.92
	<b>KERBING</b>				
	Road Kerb - Dropped Kerb	m	19.20	£ 37.14	£ 713.09
	Road Kerb - curved ne 12m radius	m	0.00	£ 21.50	£ -
	Edging	m	1435.00	£ 9.05	£ 12,986.75

**BODW Options Appraisal Cost Estimate -  
Route Option C1, Between Garthdee Road The Deeside Way**



Item Number	Description	Unit	Quantity	Rate	Price
	<b>ROAD MARKINGS</b>				
	Thermoplastic screed or spray; triangles in reflectorized white, 1.6m high	nr	22.00	£ 13.14	£ 289.08
	White lining	m	16.20	£ 1.57	£ 25.43
	Yellow lining	m	0.00	£ 1.95	£ -
	<b>SIGNAGE TO BE PROVIDED AT NEW JUNCTIONS/ROUTES</b>				
	Double sided signs	nr	9.00	£ 121.17	£ 1,090.53
	Backfill for sign poles	m3	1.15	£ 24.69	£ 28.44
	Concrete foundations to signage	m3	2.30	£ 129.87	£ 299.22
	Extra for fixing singly to one face only	nr	0.00	£ 1.14	£ -
	<b>REMOVE FROM STORE AND RE-ERECT</b>				
	Street lighting column	nr	14.00	£ 363.36	£ 5,087.04
	<b>LANDSCAPING</b>				
	Turfing	m2	702.00	£ 12.18	£ 8,550.36
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	702.00	£ 0.18	£ 126.36
	<b>ABNORMALS</b>				
	<b>EARTHWORKS</b>				
	General vegetation clearance	ha	0.17	£1,224.00	£ 211.75
	Excavate Topsoil at 250mm	m3	433.25	£ 3.22	£ 1,395.07
	Excavate/shaping of existing surface (0.25 - 0.5m deep)	m3	433.25	£ 3.22	£ 1,395.07
	Disposal of Excavated material	m3	433.25	£ 65.76	£ 28,490.52
	Engineered fill reinstatement	m3	433.25	£ 27.45	£ 11,892.71
	Top soil reinstatement at 250mm thick	m3	433.25	£ 4.22	£ 1,828.32
	Turfing	m2	1507.00	£ 12.87	£ 19,395.09
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	1507.00	£ 0.18	£ 271.26
	Timber Fencing	m	235.50	£ 25.37	£ 5,974.64
	<b>UTILITY PROTECTION/RELOCATION</b>				
	Scottish Water, combined service line reinforcement/protection	m	28.20	£ 100.00	£ 2,820.00
	Scottish Water, surface water service line reinforcement/protection	m	3.10	£ 100.00	£ 310.00
	Scottish Water, distribution main reinforcement/protection	m	48.40	£ 100.00	£ 4,840.00
	SGN medium pressure service line reinforcement/protection	m	3.20	£ 250.00	£ 800.00
	SGN high pressure service line reinforcement/protection	m	6.30	£ 250.00	£ 1,575.00
	SSE high voltage service line reinforcement/protection	m	106.10	£ 250.00	£ 26,525.00
	SSE low voltage service line reinforcement/protection	m	2.70	£ 250.00	£ 675.00
	Vodafone service line reinforcement/protection	m	40.90	£ 100.00	£ 4,090.00

**BODW Options Appraisal Cost Estimate -  
Route Option C1, Between Garthdee Road The Deeside Way**



Item Num	Description	Unit	Quantity	Rate	Price
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<b>Route Option C1 Total from Spon's</b>	£ 272,103.95
Regional Variation in rates (Scotland 0.93)	£ 253,056.67
Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise)	£ 259,989.73
Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise)	£ 265,189.53
Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise)	£ 268,656.05
Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise)	£ 268,903.66

<b>Total Carried Forward</b>	<b>£ 268,903.66</b>
General Contingencies 15%	£ 40,335.55
Preliminaries 12%	£ 32,268.44
Optimism Bias (Standard Civil Engineering 44%)	£ 118,317.61

**Total** **£ 459,825.27**

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option C2, Garthdee Road**



Item Number	Description	Unit	Quantity	Rate	Price
	<b>Route Option C2</b>				
	<b>SITE CLEARANCE</b>				
	General vegetation clearance	ha	0.10	£1,224.00	£ 122.40
	Removal of trip rail	m	208.80	£ 17.74	£ 3,704.11
	Remove and store lighting column off site	nr	3	£ 130.03	£ 390.09
	<b>EXCAVATION</b>				
	Road Construction	m3	7.73	£ 63.68	£ 492.04
	Excavate road kerb	m	0.00	£ 7.88	£ -
	Excavate edging kerb	m	207.00	£ 6.03	£ 1,248.21
	Footway Construction	m3	47.45	£ 63.68	£ 3,021.62
	Topsoil (at depth of 0.025m)	m3	185.50	£ 3.22	£ 597.31
	Sign poles foundations - Topsoil (at depth of 0.025m)	m3	0.80	£ 3.20	£ 2.56
	Sign poles foundations	m3	1.12	£ 6.32	£ 7.08
	<b>DISPOSAL</b>				
	Road Construction	m3	7.73	£ 66.98	£ 517.54
	Road kerb	m	0.00	£ 2.69	£ -
	Edging kerb	m	207.00	£ 2.69	£ 556.83
	Footway Construction	m3	47.45	£ 66.98	£ 3,178.20
	Top soil	m3	185.50	£ 64.54	£ 11,972.17
	Sign pole foundations - topsoil	m3	0.80	£ 64.54	£ 51.63
	Sign pole foundations	m3	1.12	£ 65.76	£ 73.65
	<b>ROAD CONSTRUCTION FOR LONGITUDINAL TRENCH REINSTATEMENT</b>				
	Basecourse; 140mm AC dense base	m2	14.00	£ 27.05	£ 378.70
	Binder; 55mm AC	m2	27.00	£ 13.20	£ 356.40
	Surface;45mm HRA with 20mm nominal chippings	m2	40.00	£ 17.57	£ 702.80
	<b>ROAD CONSTRUCTION FOR RAISED TABLE</b>				
	Binder; 20-75mm AC	m2	55.15	£ 16.47	£ 908.32
	Surface;45mm HRA with 20mm nominal chippings	m2	55.15	£ 17.57	£ 968.99
	<b>CYCLEWAY CONSTRUCTION</b>				
	Subbase; Type 1, 130mm deep	m3	74	£ 36.94	£ 2,722.85
	Bitumen Macadam binder course 40mm thick	m2	567	£ 13.20	£ 7,484.40
	Surfacing 30mm HRA with 8mm coated chippings	m2	567	£ 17.46	£ 9,899.82
	<b>FOOTWAY CONSTRUCTION</b>				
	Subbase; Type 1, 180mm deep	m3	77	£ 38.14	£ 2,952.04
	Bitumen Macadam binder course 40mm thick	m2	430	£ 13.20	£ 5,676.00
	Surfacing 30mm HRA with 8mm coated chippings	m2	430	£ 17.46	£ 7,507.80
	Re-surfacing of existing footway; 30mm HRA with 8mm coated chippings	m2	131	£ 17.46	£ 2,287.26

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option C2, Garthdee Road**



Item Number	Description	Unit	Quantity	Rate	Price
	Tactile (assuming 4.8m2 per singular cyclist crossing and 2.24m2 per singular pedestrian crossing)	m2	56.32	£ 68.00	£ 3,829.76
	<b>KERBING</b>				
	Road Kerb - Dropped Kerb	m	0.00	£ 37.14	£ -
	Road Kerb - curved ne 12m radius	m	382.00	£ 21.50	£ 8,213.00
	Edging	m	208.00	£ 9.05	£ 1,882.40
	<b>ROAD MARKINGS</b>				
	Thermoplastic screed or spray; triangles in reflectorized white, 1.6m high	nr	4.00	£ 13.14	£ 52.56
	White lining	m	0.00	£ 1.57	£ -
	Yellow lining	m	48.00	£ 1.95	£ 93.60
	<b>SIGNAGE TO BE PROVIDED AT NEW JUNCTIONS/ROUTES</b>				
	Double sided signs	nr	5.00	£ 121.17	£ 605.85
	Backfill for sign poles	m3	0.64	£ 24.69	£ 15.80
	Concrete foundations to signage	m3	1.28	£ 129.87	£ 166.23
	Extra for fixing singly to one face only	nr	3.00	£ 1.14	£ 3.42
	<b>REMOVE FROM STORE AND RE-ERECT</b>				
	Street lighting column	nr	3.00	£ 363.36	£ 1,090.08
	<b>LANDSCAPING</b>				
	Turfing	m2	210.00	£ 12.18	£ 2,557.80
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	210.00	£ 0.18	£ 37.80
	<b>UTILITY PROTECTION/RELOCATION</b>				
	BT Service line reinforcement/protection (excluding fibre-optic chambers)	Item	1.00	£ 2,000.00	£ 2,000.00
	Scottish Water, distribution main reinforcement/protection	m	145.30	£ 100.00	£ 14,530.00
	SGN medium pressure service line reinforcement/protection	m	96.40	£ 250.00	£ 24,100.00
	SSE high voltage service line reinforcement/protection	m	113.80	£ 250.00	£ 28,450.00

<b>Route Option C2 Total from Spon's</b>	£ 155,409.11
Regional Variation in rates (Scotland 0.93)	£ 144,530.47
Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise)	£ 148,490.21
Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise)	£ 151,460.02
Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise)	£ 153,439.89
Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise)	£ 153,581.31

<b>Total Carried Forward</b>	<b>£ 153,581.31</b>
General Contingencies 15%	£ 23,037.20
Preliminaries 12%	£ 18,429.76
Optimism Bias (Standard Civil Engineering 44%)	£ 67,575.77

**Total** **£ 262,624.03**

**BODW Active Travel Options Appraisal  
Cost Estimate - Route Option C3 and C4, Deeside Way Widening**



Item Number	Description	Unit	Quantity	Rate	Price
<b>Route Option C3 &amp; C4</b>					
<b>SITE CLEARANCE</b>					
	General vegetation clearance	ha	0.37	£1,224.00	£ 455.33
<b>EXCAVATION</b>					
	Excavate edging kerb	m	2297.00	£ 6.03	£ 13,850.91
	Footway Construction	m3	47.66	£ 63.68	£ 3,034.73
	Footway Construction to re-surface Deeside Way	m3	84.65	£ 63.68	£ 5,390.38
	Topsoil (at depth of 0.25m)	m3	361.85	£ 3.22	£ 1,165.16
<b>DISPOSAL</b>					
	Edging kerb	m	2297.00	£ 2.69	£ 6,178.93
	Footway Construction	m3	47.66	£ 66.98	£ 3,192.00
	Footway Construction to re-surface Deeside Way (excluding tie-in)	m3	84.65	£ 66.98	£ 5,669.72
	Top soil	m3	361.85	£ 64.54	£ 23,353.80
<b>FOOTWAY CONSTRUCTION</b>					
	Subbase; Type 1, 180mm deep	m3	261	£ 38.14	£ 9,936.69
	Bitumen Macadam binder course 40mm thick	m2	2125	£ 13.20	£ 28,050.00
	Surfacing 30mm HRA with 8mm coated chippings	m2	2125	£ 17.46	£ 37,102.50
	Re-surfacing of existing Deeside Way; 30mm HRA (excluding tie-in)	m2	2821	£ 17.46	£ 49,258.15
<b>KERBING</b>					
	Edging	m	2271.00	£ 9.05	£ 20,552.55
<b>LANDSCAPING</b>					
	Turfing	m2	2278.00	£ 12.18	£ 27,746.04
	Supply and apply granular cultivation treatments by hand; 35g/m2	m2	2278.00	£ 0.18	£ 410.04
<b>UTILITY PROTECTION/RELOCATION</b>					
	Scottish Water, distribution main reinforcement/protection	m	872.70	£ 100.00	£ 87,270.00

**Route Option C4 Total from Spon's £ 322,616.94**

Regional Variation in rates (Scotland 0.93) £ 300,033.75  
 Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise) £ 308,253.85  
 Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise) £ 314,418.93  
 Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise) £ 318,528.98  
 Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise) £ 318,822.56

**Total Carried Forward Route Option C4 £ 318,822.56**

General Contingencies 15% £ 47,823.38  
 Preliminaries 12% £ 38,258.71  
 Optimism Bias (Standard Civil Engineering 44%) £ 140,281.93

**Total £ 545,186.57**

**BODW Active Travel Options Appraisal**  
**Cost Estimate - Route Option C3 and C4, Deeside Way Widening**



Item Num	Description	Unit	Quantity	Rate	Price
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	<b>Route Option C3 Total from Spon's</b>	<b>£ 262,298.68</b>
	Regional Variation in rates (Scotland 0.93)	£ 243,937.77
	Increase in December 2016 rates to December 2017 (102.2 to 105.0 index rise)	£ 250,621.00
	Increase in December 2017 rates to December 2018 (105.0 to 107.1 index rise)	£ 255,633.42
	Increase in December 2018 rates to December 2019 (107.1 to 108.5 index rise)	£ 258,975.03
	Increase in December 2019 rates to March 2020 (108.5 to 108.6 index rise)	£ 259,213.72

	<b>Total Carried Forward Route Option C3</b>	<b>£ 259,213.72</b>
	General Contingencies 15%	£ 38,882.06
	Preliminaries 12%	£ 31,105.65
	Optimism Bias (Standard Civil Engineering 44%)	£ 114,054.04

**Total** **£ 443,255.46**