

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V0 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	MAIN CARRIAGEWAY - CH 0 - CH 2200				
1	Single Carriageway 2.5m verges, 1m Hard Strip 7.30m running lane - width = 14.30m Rural Link Road carriageway is 7.30m wide - pro rata to 9.30m	2400	m	1895.03	£ 4,548,082.19
	Ddt Earthworks Allowance estimated at 50%				-£ 2,274,041.10
	Earthworks - From Schedule				
	Excavation of acceptable material in cutting and other excavation	253543	m ³	4.32	£ 1,096,319.93
	Extra over excavation for excavation in Hard Material in cutting and other excavation	63386	m ³	14.96	£ 948,250.82
	Disposal of unacceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge)	63386	m ³	3.90	£ 247,109.35
	Disposal of acceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge)	154023	m ³	3.90	£ 600,459.64
	Deposition of acceptable material in embankments and other areas of fill.	36134	m ³	1.42	£ 51,310.28
	Kerbs	4800	m	27.50	£ 131,983.20
	Verge Works - Assumed Excavation included above	12000	m ²		
	Imported Topsoil	1800	m ³	28.13	£ 50,632.20
	Topsoiling 150mm	12000	m ²	8.25	£ 98,946.00
	Seeding	12000	m ²	0.61	£ 7,314.00
	SIDE ROADS				
2	Farm Access - Single Carriageway 2.5m verges, 3.65m running lane = 8.65 - less structure (149m - 21.80m) Assumed no kerbs	127	m	823.72	£ 104,776.70
	Farm Access Overbridge	210	m ²	4000.00	£ 840,000.00
	Verge Works	600	m ²		
	Excavation unacceptable material	90	m ³	5.35	£ 481.28
	EO Hard Material	23	m ³	41.98	£ 944.44
	Disposal of arisings	90	m ³	3.90	£ 350.87
	EO haul distance of 10km using 15-25 Tonne Lorry	90	m ³	17.18	£ 1,546.29
	Imported Topsoil	90	m ³	28.13	£ 2,531.61
	Topsoiling 150mm	636	m ²	8.25	£ 5,244.14
	Seeding	636	m ²	0.61	£ 387.64
3	Cockley Road - Single Carriageway 2.5m verges, 6.5m running lane = 11.50m - less structure (265m - 29.50m)	236	m	1324.49	£ 311,916.52
	Kerbs	478	m	27.50	£ 13,143.33
	Cockley Road Overbridge	383	m ²	4150.00	£ 1,588,620.00
4	Main Road - Single Carriageway 2.5m verges, 1m hard Strip 6.0m running lane = 13m	182	m	1630.14	£ 296,684.93

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Northern Route V0 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	Kerbs	364	m	27.50	£ 10,008.73
	Verge Works	910	m ²		
	Excavation unacceptatable material	137	m ³	5.35	£ 729.93
	EO Hard Material	34	m ³	41.98	£ 1,432.40
	Disposal of arisings	137	m ³	3.90	£ 532.15
	EO haul distance of 10km using 15-25 Tonne Lorry	137	m ³	17.18	£ 2,345.21
	Imported Topsoil	137	m ³	28.13	£ 3,839.61
	Topsoiling 150mm	910	m ²	8.25	£ 7,503.41
	Seeding	910	m ²	0.61	£ 554.65
5	A422 - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	331	m	1630.14	£ 539,575.34
	Kerbs	662	m	27.50	£ 18,202.68
	Verge Works	3310	m ²		
	Excavation unacceptatable material	497	m ³	5.35	£ 2,655.03
	EO Hard Material	124	m ³	41.98	£ 5,210.15
	Disposal of arisings	497	m ³	3.90	£ 1,935.61
	EO haul distance of 10km using 15-25 Tonne Lorry	497	m ³	17.18	£ 8,530.37
	Imported Topsoil	497	m ³	28.13	£ 13,966.05
	Topsoiling 150mm	1655	m ²	8.25	£ 13,646.30
	Seeding	1655	m ²	0.61	£ 1,008.72
	Soil Nailing				£ 1,215,663.86
	SUB-TOTAL				£ 10,520,334.44
	Spons Uplift to Q3/2020		6%		£ 631,220.07
	SUB-TOTAL				£ 11,151,554.50
	PRELIMINARIES		25%		£ 2,787,888.63
	ESTIMATED CONSTRUCTION COST				£ 13,939,443.13
	PREPARATION COSTS		12%		£ 1,672,733.18
	SUPERVISION COSTS		5%		£ 696,972.16
	SUB-TOTAL				£ 16,309,148.46
	OPTIMISM BIAS (TAG Unit A1.2 Table 8)		44%		£ 7,176,025.32
	ESTIMATED TOTAL COST (CONSTRUCTION AND DESIGN FEES)				£ 23,485,173.78

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V1 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	MAIN CARRIAGEWAY - CH 0 - CH 2700				
1	Single Carriageway 2.5m verges, 1m Hard Strip 7.30m running lane - width = 14.30m Rural Link Road carriageway is 7.30m wide - pro rata to 9.30m	2700	m	1895.03	£ 5,116,592.47
	Ddt Earthworks Allowance estimated at 50%				-£ 2,558,296.23
	Earthworks - From Schedule				
	Excavation of acceptable material in cutting and other excavation	340996	m ³	4.32	£ 1,474,466.70
	Extra over excavation for excavation in Hard Material in cutting and other excavation	85249	m ³	14.96	£ 1,275,325.04
	Deposition of acceptable material in embankments and other areas of fill.	6223	m ³	1.42	£ 8,836.66
	Disposal of unacceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge))	85249	m ³	3.90	£ 332,343.23
	Disposal of acceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge)	249524	m ³	3.90	£ 972,769.31
	Kerbs	5400	m	27.50	£ 148,481.10
	Verge Works	2025	m ³		
	Imported Topsoil	304	m ³	28.13	£ 8,544.18
	Topsoiling 150mm	13500	m ²	8.25	£ 111,314.25
	Seeding	13500	m ²	0.61	£ 8,228.25
	SIDE ROADS				
2	Farm Access - Single Carriageway 2.5m verges, 3.65m running lane = 8.65 - less structure (149m - 21.80m) Assumed no kerbs	127	m	823.72	£ 104,776.70
	Farm Access Overbridge	210	m ²	4000.00	£ 840,000.00
	Verge Works	636	m ²		
	Excavation unacceptable material	95	m ³	5.35	£ 510.15
	EO Hard Material	24	m ³	41.98	£ 1,001.10
	Disposal of arisings	95	m ³	3.90	£ 371.92
	EO haul distance of 10km using 15-25 Tonne Lorry	95	m ³	17.18	£ 1,639.07
	Imported Topsoil	95	m ³	28.13	£ 2,683.51
	Topsoiling 150mm	636	m ²	8.25	£ 5,244.14
	Seeding	636	m ²	0.61	£ 387.64
3	Cockley Road - Single Carriageway 2.5m verges, 6.5m running lane = 11.50m - less structure (149m - 29.50m)	239	m	1324.49	£ 315,889.98
	Kerbs	478	m	27.50	£ 13,143.33

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V1 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	Cockley Road Overbridge	383	m ²	4150.00	£ 1,588,620.00
4	Main Road - Single Carriageway 2.5m verges, 1m hard Strip 6.0m running lane = 13m	176	m	1630.14	£ 286,904.11
	Kerbs	352	m	27.50	£ 9,678.77
	Verge Works	880	m ³		
	Excavation unacceptable material	132	m ³	5.35	£ 705.87
	EO Hard Material	33	m ³	41.98	£ 1,385.18
	Disposal of arisings	132	m ³	3.90	£ 514.60
	EO haul distance of 10km using 15-25 Tonne Lorry	132	m ³	17.18	£ 2,267.89
	Imported Topsoil	132	m ³	28.13	£ 3,713.03
	Topsoiling 150mm	880	m ²	8.25	£ 7,256.04
	Seeding	880	m ²	0.61	£ 536.36
5	A422 - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	331	m	1630.14	£ 539,575.34
	Kerbs	662	m	27.50	£ 18,202.68
	Verge Works	1655	m ³		
	Excavation unacceptable material	248	m ³	5.35	£ 1,327.52
	EO Hard Material	62	m ³	41.98	£ 2,605.07
	Disposal of arisings	248	m ³	3.90	£ 967.80
	EO haul distance of 10km using 15-25 Tonne Lorry	248	m ³	17.18	£ 4,265.18
	Imported Topsoil	248	m ³	28.13	£ 6,983.02
	Topsoiling 150mm	1655	m ²	8.25	£ 13,646.30
	Seeding	1655	m ²	0.61	£ 1,008.72
	Soil Nailing				£ 2,188,194.95
	SUB-TOTAL				£ 12,862,610.95
	Spons Uplift to Q3/2020		6%		£ 771,756.66
	SUB-TOTAL				£ 13,634,367.60
	PRELIMINARIES		25%		£ 3,408,591.90
	ESTIMATED CONSTRUCTION COST				£ 17,042,959.50
	PREPARATION COSTS		12%		£ 2,045,155.14
	SUPERVISION COSTS		5%		£ 852,147.98

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V1 - Cost Estimate

ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
SUB-TOTAL				£ 19,940,262.62
OPTIMISM BIAS (TAG Unit A1.2 Table 8)		44%		£ 8,773,715.55
ESTIMATED TOTAL COST (CONSTRUCTION AND DESIGN FEES)				£ 28,713,978.17

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V2 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	MAIN CARRIAGEWAY - CH 0 - CH 2600				
1	Single Carriageway 2.5m verges, 1m Hard Strip 7.30m running lane - width = 14.30m Rural Link Road carriageway is 7.30m wide - pro rata to 9.30m	2600	m	1895.03	£ 4,927,089.04
	Ddt Earthworks Allowance estimated at 50%				-£ 2,463,544.52
	Earthworks - From Schedule				
	Excavation of acceptable material in cutting and other excavation	321515	m ³	4.32	£ 1,390,230.86
	Extra over excavation for excavation in Hard Material in cutting and other excavation	80379	m ³	14.96	£ 1,202,466.10
	Deposition of acceptable material in embankments and other areas of fill.	45992	m ³	1.42	£ 65,308.64
	Disposal of unacceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge))	80379	m ³	3.90	£ 313,356.56
	Disposal of acceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge)	195144	m ³	3.90	£ 760,769.86
	Kerbs	5200	m	27.50	£ 142,981.80
	Verge Works	1950	m ³		
	Imported Topsoil	293	m ³	28.13	£ 8,227.73
	Topsoiling 150mm	13000	m ²	8.25	£ 107,191.50
	Seeding	13000	m ²	0.61	£ 7,923.50
	SIDE ROADS				
2	Farm Access - Single Carriageway 2.5m verges, 3.65m running lane = 8.65 - less structure (149m - 21.80m) Assumed no kerbs	127	m	823.72	£ 104,776.70
	Farm Access Overbridge	210	m ²	4000.00	£ 840,000.00
	Verge Works	636	m ²		
	Excavation unacceptable material	95	m ³	5.35	£ 510.15
	EO Hard Material	24	m ³	41.98	£ 1,001.10
	Disposal of arisings	95	m ³	3.90	£ 371.92
	EO haul distance of 10km using 15-25 Tonne Lorry	95	m ³	17.18	£ 1,639.07
	Imported Topsoil	95	m ³	28.13	£ 2,683.51
	Topsoiling 150mm	636	m ²	8.25	£ 5,244.14
	Seeding	636	m ²	0.61	£ 387.64
3	Cockley Road - Single Carriageway 2.5m verges, 6.5m running lane = 11.50m - less structure (149m - 29.50m)	239	m	1324.49	£ 315,889.98
	Kerbs	478	m	27.50	£ 13,143.33

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V2 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	Cockley Road Overbridge	383	m ²	4150.00	£ 1,588,620.00
4	Main Road - Single Carriageway 2.5m verges, 1m hard Strip 6.0m running lane = 13m	103	m	1630.14	£ 167,904.11
	Kerbs	206	m	27.50	£ 5,664.28
	Verge Works	515	m ³		
	Excavation unacceptable material	77	m ³	5.35	£ 413.09
	EO Hard Material	19	m ³	41.98	£ 810.64
	Disposal of arisings	77	m ³	3.90	£ 301.16
	EO haul distance of 10km using 15-25 Tonne Lorry	77	m ³	17.18	£ 1,327.23
	Imported Topsoil	77	m ³	28.13	£ 2,172.97
	Topsoiling 150mm	515	m ²	8.25	£ 4,246.43
	Seeding	515	m ²	0.61	£ 313.89
5	A422 - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	331	m	1630.14	£ 539,575.34
	Kerbs	662	m	27.50	£ 18,202.68
	Verge Works	1655	m ³		
	Excavation unacceptable material	248	m ³	5.35	£ 1,327.52
	EO Hard Material	62	m ³	41.98	£ 2,605.07
	Disposal of arisings	248	m ³	3.90	£ 967.80
	EO haul distance of 10km using 15-25 Tonne Lorry	248	m ³	17.18	£ 4,265.18
	Imported Topsoil	248	m ³	28.13	£ 6,983.02
	Topsoiling 150mm	1655	m ²	8.25	£ 13,646.30
	Seeding	1655	m ²	0.61	£ 1,008.72
6	Roundabout - North Arm - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	97	m	97.00	£ 9,409.00
	Kerbs	194	m	27.50	£ 5,334.32
	Verge Works	485	m ³		
	Excavation unacceptable material	73	m ³	5.35	£ 389.03
	EO Hard Material	18	m ³	41.98	£ 763.42
	Disposal of arisings	73	m ³	3.90	£ 283.62
	EO haul distance of 10km using 15-25 Tonne Lorry	73	m ³	17.18	£ 1,249.92
	Imported Topsoil	73	m ³	28.13	£ 2,046.38
	Topsoiling 150mm	485	m ²	8.25	£ 3,999.07
	Seeding	485	m ²	0.61	£ 295.61
7	Roundabout - Assumed 40m ICD - 8.5m circulatory	100	m	1,636.25	£ 212,712.50

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V2 - Cost Estimate

ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
Centre Roundabout -				
Area = $A=\pi R^2 = 415m^2$	415			
Excavation unacceptable material	208	m ³	5.35	£ 2,286.06
EO Hard Material	52	m ³	41.98	£ 17,944.31
Disposal of arisings	208	m ³	3.90	£ 1,666.61
EO haul distance of 10km using 15-25 Tonne Lorry	208	m ³	17.18	£ 7,344.88
Kerbs	72	m ³	27.50	£ 2,859.64
Imported acceptable material	83	m ³	35.10	£ 6,001.76
Compaction	83	m ³	0.89	£ 151.42
Imported Topsoil	125	m ³	28.13	£ 7,215.09
Topsoiling 300mm surfaces sloping more than 10 deg to the horizontal	415	m ²	10.09	£ 8,630.13
Seeding	415	m ²	0.61	£ 521.12
Soil Nailing				£ 1,215,663.86
SUB-TOTAL				£ 11,614,771.80
Spons Uplift to Q3/2020		6%		£ 696,886.31
SUB-TOTAL				£ 12,311,658.10
PRELIMINARIES		25%		£ 3,077,914.53
ESTIMATED CONSTRUCTION COST				£ 15,389,572.63
PREPARATION COSTS		12%		£ 1,846,748.72
SUPERVISION COSTS		5%		£ 769,478.63
SUB-TOTAL				£ 18,005,799.98
OPTIMISM BIAS (TAG Unit A1.2 Table 8)		44%		£ 7,922,551.99
ESTIMATED TOTAL COST (CONSTRUCTION AND DESIGN FEES)				£ 25,928,351.97

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V3 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	MAIN CARRIAGEWAY - CH 0 - CH 2600				
1	Single Carriageway 2.5m verges, 1m Hard Strip 7.30m running lane - width = 14.30m Rural Link Road carriageway is 7.30m wide - pro rata to 9.30m	2600	m	1895.03	£ 4,927,089.04
	Ddt Earthworks Allowance estimated at 50%				-£ 2,463,544.52
	Earthworks - From Schedule				
	Excavation of acceptable material in cutting and other excavation	307305	m ³	4.32	£ 1,328,786.82
	Extra over excavation for excavation in Hard Material in cutting and other excavation	76826	m ³	14.96	£ 1,149,320.70
	Deposition of acceptable material in embankments and other areas of fill.	30175	m ³	1.42	£ 42,848.50
	Disposal of unacceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge))	76826	m ³	3.90	£ 299,507.14
	Disposal of acceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge)	200304	m ³	3.90	£ 780,884.17
	Kerbs	5200	m	27.50	£ 142,981.80
	Verge Works	1950	m ³		
	Imported Topsoil	293	m ³	28.13	£ 8,227.73
	Topsoiling 150mm	13000	m ²	8.25	£ 107,191.50
	Seeding	13000	m ²	0.61	£ 7,923.50
	SIDE ROADS				
2	Farm Access - Single Carriageway 2.5m verges, 3.65m running lane = 8.65 - less structure (149m - 21.80m) Assumed no kerbs	127	m	823.72	£ 104,776.70
	Farm Access Overbridge	210	m ²	4000.00	£ 840,000.00
	Verge Works	636	m ²		
	Excavation unacceptatable material	95	m ³	5.35	£ 510.15
	EO Hard Material	24	m ³	41.98	£ 1,001.10
	Disposal of arisings	95	m ³	3.90	£ 371.92
	EO haul distance of 10km using 15-25 Tonne Lorry	95	m ³	17.18	£ 1,639.07
	Imported Topsoil	95	m ³	28.13	£ 2,683.51
	Topsoiling 150mm	636	m ²	8.25	£ 5,244.14
	Seeding	636	m ²	0.61	£ 387.64
3	Cockley Road - Single Carriageway 2.5m verges, 6.5m running lane = 11.50m - less structure (149m - 29.50m)	239	m	1324.49	£ 315,889.98
	Kerbs	478	m	27.50	£ 13,143.33

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23/07/2020

Northern Route V3 - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	Cockley Road Overbridge	383	m ²	4150.00	£ 1,588,620.00
4	Main Road - Single Carriageway 2.5m verges, 1m hard Strip 6.0m running lane = 13m	103	m	1630.14	£ 167,904.11
	Kerbs	206	m	27.50	£ 5,664.28
	Verge Works	515	m ³		
	Excavation unacceptable material	77	m ³	5.35	£ 413.09
	EO Hard Material	19	m ³	41.98	£ 810.64
	Disposal of arisings	77	m ³	3.90	£ 301.16
	EO haul distance of 10km using 15-25 Tonne Lorry	77	m ³	17.18	£ 1,327.23
	Imported Topsoil	77	m ³	28.13	£ 2,172.97
	Topsoiling 150mm	515	m ²	8.25	£ 4,246.43
	Seeding	515	m ²	0.61	£ 313.89
5	A422 - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	331	m	1630.14	£ 539,575.34
	Kerbs	662	m	27.50	£ 18,202.68
	Verge Works	1655	m ³		
	Excavation unacceptable material	248	m ³	5.35	£ 1,327.52
	EO Hard Material	62	m ³	41.98	£ 2,605.07
	Disposal of arisings	248	m ³	3.90	£ 967.80
	EO haul distance of 10km using 15-25 Tonne Lorry	248	m ³	17.18	£ 4,265.18
	Imported Topsoil	248	m ³	28.13	£ 6,983.02
	Topsoiling 150mm	1655	m ²	8.25	£ 13,646.30
	Seeding	1655	m ²	0.61	£ 1,008.72
6	Roundabout - North Arm - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	97	m	97.00	£ 9,409.00
	Kerbs	194	m	27.50	£ 5,334.32
	Verge Works	485	m ³		
	Excavation unacceptable material	73	m ³	5.35	£ 389.03
	EO Hard Material	18	m ³	41.98	£ 763.42
	Disposal of arisings	73	m ³	3.90	£ 283.62
	EO haul distance of 10km using 15-25 Tonne Lorry	73	m ³	17.18	£ 1,249.92
	Imported Topsoil	73	m ³	28.13	£ 2,046.38
	Topsoiling 150mm	485	m ²	8.25	£ 3,999.07
	Seeding	485	m ²	0.61	£ 295.61
7	Roundabout - Assumed 40m ICD - 8.5m circulatory	100	m	1,636.25	£ 212,712.50

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Northern Route V3 - Cost Estimate

ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
Centre Roundabout -				
Area = $A=\pi R^2 = 415m^2$	415			
Excavation unacceptable material	208	m ³	5.35	£ 2,286.06
EO Hard Material	52	m ³	41.98	£ 17,944.31
Disposal of arisings	208	m ³	3.90	£ 1,666.61
EO haul distance of 10km using 15-25 Tonne Lorry	208	m ³	17.18	£ 7,344.88
Kerbs	72	m ³	27.50	£ 2,859.64
Imported acceptable material	83	m ³	35.10	£ 6,001.76
Compaction	83	m ³	0.89	£ 151.42
Imported Topsoil	125	m ³	28.13	£ 7,215.09
Topsoiling 300mm surfaces sloping more than 10 deg to the horizontal	415	m ²	10.09	£ 8,630.13
Seeding	415	m ²	0.61	£ 521.12
Soil Nailing				£ 1,142,724.03
SUB-TOTAL				£ 11,411,047.28
Spons Uplift to Q3/2020		6%		£ 684,662.84
SUB-TOTAL				£ 12,095,710.11
PRELIMINARIES		25%		£ 3,023,927.53
ESTIMATED CONSTRUCTION COST				£ 15,119,637.64
PREPARATION COSTS		12%		£ 1,814,356.52
SUPERVISION COSTS		5%		£ 755,981.88
SUB-TOTAL				£ 17,689,976.04
OPTIMISM BIAS (TAG Unit A1.2 Table 8)		44%		£ 7,783,589.46
ESTIMATED TOTAL COST (CONSTRUCTION AND DESIGN FEES)				£ 25,473,565.50

A422 Farthinghoe Bypass Feasibility Study

23/07/2020

Southern V0 - - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	MAIN CARRIAGEWAY - CH 0 - CH 2600				
1	Single Carriageway 2.5m verges, 1m Hard Strip 7.30m running lane - width = 14.30m Rural Link Road carriageway is 7.30m wide - pro rata to 9.30m	2200	m	1895.03	£ 4,169,075.34
	Ddt Earthworks Allowance estimated at 50%				-£ 2,084,537.67
	Earthworks - From Schedule				
	Excavation of acceptable material in cutting and other excavation	144222	m ³	4.32	£ 623,615.93
	Extra over excavation for excavation in Hard Material in cutting and other excavation	36056	m ³	14.96	£ 539,390.28
	Deposition of acceptable material in embankments and other areas of fill.	108167	m ³	1.42	£ 153,596.43
	Disposal of unacceptable material Class U1A for less than 1km haul (assumed no landfill tax or tipping charge))	36056	m ³	3.90	£ 140,562.37
	Imported acceptable material in embankments and other areas of fill.	62278	m ³	28.80	£ 1,793,342.89
	Extra for aggregate Tax	62278	m ³	6.22	£ 387,459.47
	Compaction of acceptable material in embankments and other areas of fill.	62278	m ³	0.89	£ 55,146.73
	Kerbs	4400	m	27.50	£ 120,984.60
	Verge Works	1650	m ³		
	Imported Topsoil	248	m ³	28.13	£ 6,961.93
	Topsoiling 150mm	11000	m ²	8.25	£ 90,700.50
	Seeding	11000	m ²	0.61	£ 6,704.50
	SIDE ROADS				
2	Clarks Lane - Single Carriageway 2.5m verges, 5.50m running lane = 5.50m - less structure (140-19.20m) Assumed no kerbs	121	m	1241.22	£ 149,938.92
	Clarks Lane Overbridge	196	m ²	4150.00	£ 812,736.00
	Verge Works	604	m ²		
	Excavation unacceptable material	91	m ³	5.35	£ 484.48
	EO Hard Material	23	m ³	41.98	£ 950.73
	Disposal of arisings	91	m ³	3.90	£ 353.20
	EO haul distance of 10km using 15-25 Tonne Lorry	91	m ³	17.18	£ 1,556.60
	Imported Topsoil	91	m ³	28.13	£ 2,548.49
	Topsoiling 150mm	604	m ²	8.25	£ 4,980.28
	Seeding	604	m ²	0.61	£ 368.14
3	Charlton Road - Single Carriageway 2.5m verges, 6.5m running lane = 11.50m - less structure (285m - 17.35m)	268	m	1324.49	£ 354,498.76

A422 Farthinghoe Bypass Feasibility Study

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Southern V0 - - Cost Estimate

	ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
	Kerbs	535	m	27.50	£ 14,718.88
	Charlton Road Overbridge	276	m ²	4000.00	£ 1,102,464.00
4	Main Road - Single Carriageway 2.5m verges, 1m hard Strip 6.0m running lane = 13m	103	m	1630.14	£ 167,904.11
	Kerbs	206	m	27.50	£ 5,664.28
	Verge Works	515	m ³		
	Excavation unacceptable material	77	m ³	5.35	£ 413.09
	EO Hard Material	19	m ³	41.98	£ 810.64
	Disposal of arisings	77	m ³	3.90	£ 301.16
	EO haul distance of 10km using 15-25 Tonne Lorry	77	m ³	17.18	£ 1,327.23
	Imported Topsoil	77	m ³	28.13	£ 2,172.97
	Topsoiling 150mm	515	m ²	8.25	£ 4,246.43
	Seeding	515	m ²	0.61	£ 313.89
5	A422 - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	129	m	1630.14	£ 210,287.67
	Kerbs	258	m	27.50	£ 7,094.10
	Verge Works	645	m ³		
	Excavation unacceptable material	97	m ³	5.35	£ 517.37
	EO Hard Material	24	m ³	41.98	£ 1,015.27
	Disposal of arisings	97	m ³	3.90	£ 377.18
	EO haul distance of 10km using 15-25 Tonne Lorry	97	m ³	17.18	£ 1,662.26
	Imported Topsoil	97	m ³	28.13	£ 2,721.48
	Topsoiling 150mm	645	m ²	8.25	£ 5,318.35
	Seeding	645	m ²	0.61	£ 393.13
6	Farm Access - Single Carriageway 2.5m verges, 1m hard strip, 6.0m running lane = 13m	97	m	1630.14	£ 158,123.29
	Kerbs	194	m	27.50	£ 5,334.32
	Verge Works	485	m ³		
	Excavation unacceptable material	73	m ³	5.35	£ 389.03
	EO Hard Material	18	m ³	41.98	£ 763.42
	Disposal of arisings	73	m ³	3.90	£ 283.62
	EO haul distance of 10km using 15-25 Tonne Lorry	73	m ³	17.18	£ 1,249.92
	Imported Topsoil	73	m ³	28.13	£ 2,046.38
	Topsoiling 150mm	485	m ²	8.25	£ 3,999.07
	Seeding	485	m ²	0.61	£ 295.61

A422 Farthinghoe Bypass Feasibility Study

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Southern V0 - - Cost Estimate

ITEM	QUANTITY	UNIT	RATE (£)	AMOUNT
Soil Nailing				£ 729,398.32
SUB-TOTAL				£ 9,763,025.35
Spons Uplift to Q3/2020		6%		£ 585,781.52
SUB-TOTAL				£ 10,348,806.87
PRELIMINARIES		25%		£ 2,587,201.72
ESTIMATED CONSTRUCTION COST				£ 12,936,008.59
PREPARATION COSTS		12%		£ 1,552,321.03
SUPERVISION COSTS		5%		£ 646,800.43
SUB-TOTAL				£ 15,135,130.05
OPTIMISM BIAS (TAG Unit A1.2 Table 8)		44%		£ 6,659,457.22
ESTIMATED TOTAL COST (CONSTRUCTION AND DESIGN FEES)				£ 21,794,587.28