

Appendix M High Level Mitigation Costs

Washington Roundabout

	DESCRIPTION	Q	UNIT	RATE	Total
	Cost based on Stantec drawing 48559/5501/002				
1.1	Site Clearance				
	General site clearance	1	item	£3,300	£3,300
	Take down existing sign	26	no	£275	£7,150
	Break out existing kerb	850	m	£22	£18,700
	Remove existing lighting column	12	no	£550	£6,600
	Remove existing traffic signal poles and controller	0	item	£8,250	£0
	Remove existing gully	13	no	£220	£2,860
1.2	Excavation and Disposal				
3	Excavation in hard dig	500	m ³	£28	£13,750
	Excavation in soft	2000	m ³	£29	£57,200
	Disposal	2500	m ³	£55	£137,500
1.3	New kerbing				
	New kerbing	1200	m	£55	£66,000
	New edging	500	m	£33	£16,500
1.4	New Construction				
	New carriageway	2500	m ²	£110	£275,000
	Re-surface / overlay	5000	m ²	£28	£137,500
	New footway	1000	m ²	£55	£55,000
1.5	Street furniture, signing and road markings				
	Signage (small) - assumed to replace existing	20	no	£550	£11,000
	Signage (large) - assumed to replace existing	5	no	£3,300	£16,500
	Road markings (single visit)	3	item	£11,000	£33,000
1.6	Drainage works				
	Gullies (new replacement gullies and additional from the scheme)	30	no	£550	£16,500
	Manholes (provisional)	10	no	£3,850	£38,500
	Drain runs (assumed using existing network) - provisional	300	m	£220	£66,000
1.7	Miscellaneous				
	Lighting columns	17	no	£3,300	£56,100
	Traffic signals new - controller, poles, ducting etc.	24	item	£33,000	£792,000
	Landscaping	1	item	£11,000	£11,000
	New VRS (assumed to replace removed barriers)	0	m	£66	£0
	Sub-Total				£1,837,660
	Add 20% Preliminaries including traffic management				£367,532
	Add 20% contingency				£441,038
	44% Optimism Bias				£1,164,341
	Total				£3,810,572

Exclusions:

Ground Investigation / poor ground issues
 Site surveys - topo, drainage etc.
 Utility Diversions
 VAT
 Professional fees
 Legal fees
 Ecology
 Traffic Management
 Traffic Regulation Orders

NOTE

Cost increase of 10% based on Construction Output Price index

Hop Oast Roundabout - Construction Cost Estimate

	DESCRIPTION	Q	UNIT	RATE	Total
	Cost based on Stantec drawing 48559/5501/SK004-P01				
1.1	Site Clearance				
	General site clearance	1	item	£3,300	£3,300
	Take down existing sign	30	no	£275	£8,250
	Break out existing kerb	1500	m	£22	£33,000
	Remove existing lighting column	13	no	£550	£7,150
	Remove existing traffic signal poles and controller	0	item	£8,250	£0
	Remove existing gully	23	no	£220	£5,060
	Removal VRS	320	m	£110	£35,200
1.2	Excavation and Disposal				
	Earthworks (material to be removed to tip off site)	2000	m ³	£14	£27,500
	Excavation in hard dig	3500	m ³	£28	£96,250
	Disposal	700	m ³	£55	£38,500
1.3	New kerbing				
	New kerbing	1600	m	£55	£88,000
	New edging	500	m	£33	£16,500
1.4	New Construction				
	New carriageway	2250	m ²	£110	£247,500
	Re-surface / overlay in layby area	2250	m ²	£28	£61,875
	New footway	1000	m ²	£55	£55,000
1.5	Street furniture, signing and road markings				
	Signage (small) - assumed to replace existing	30	no	£550	£16,500
	Signage (large)	10	no	£3,300	£33,000
	Road markings (single visit)	3	item	£11,000	£33,000
	Chevroflex	4	no	£550	£2,200
1.6	Drainage works				
	Gullies (new replacement gullies and additional from the scheme)	50	no	£550	£27,500
	Manholes (provisional)	30	no	£3,850	£115,500
	Drain runs (assumed using existing network) - provisional	500	m	£220	£110,000
1.7	Miscellaneous				
	Lighting columns	13	no	£3,300	£42,900
	Traffic signals new - controller, poles, ducting etc.	8	item	£33,000	£264,000
	Landscaping	1	item	£110,000	£110,000
	New VRS (assumed to replace removed barriers)	320	m	£66	£21,120
	Sub-Total				£1,498,805
	Add 20% Preliminaries including traffic management				£299,761
	Add 20% contingency				£359,713
	44% Optimism Bias				£949,643
	Total				£3,107,922

Exclusions:

Ground Investigation / poor ground issues

Site surveys - topo, drainage etc.

Utility Diversions

VAT

Professional fees

Legal fees

Ecology

Traffic Management

Traffic Regulation Orders

NOTE

Cost increase of 10% based on Construction Output Price index

A24/A272 Buck Barn Junction

	DESCRIPTION	Q	UNIT	RATE	Total
	Cost based on Stantec drawing 48559/5501/003				
1.1	Site Clearance				
	General site clearance	1	item	£6,600	£6,600
	Take down existing sign	11	no	£275	£3,025
	Break out existing kerb	1393	m	£22	£30,646
	Remove existing lighting column	0	no	£550	£0
	Remove existing traffic signal poles and controller	14	item	£8,250	£115,500
	Remove existing gully	12	no	£220	£2,640
1.2	Excavation and Disposal				
	Excavation in hard dig	14800	m ³	£28	£407,000
	Excavation in soft	1000	m ³	£29	£28,600
	Disposal	15800	m ³	£55	£869,000
1.3	New kerbing				
	New kerbing	2650	m	£55	£145,750
	New edging	0	m	£33	£0
1.4	New Construction				
	New carriageway	1035	m ³	£110	£113,850
	Re-surface / overlay in layby area	14105	m ³	£28	£387,888
	New footway	0	m ²	£55	£0
1.5	Street furniture, signing and road markings				
	Signage (small) - assumed to replace existing	6	no	£550	£3,300
	Signage (large) - assumed to replace existing	5	no	£3,300	£16,500
	Road markings (single visit)	3	item	£11,000	£33,000
1.6	Drainage works				
	Gullies (new replacement gullies and additional from the scheme)	21	no	£550	£11,550
	Manholes (provisional)	0	no	£3,850	£0
	Drain runs (assumed using existing network) - provisional	600	m	£220	£132,000
1.7	Miscellaneous				
	Lighting columns	24	no	£3,300	£79,200
	Traffic signals new - controller, poles, ducting etc.	0	item	£33,000	£0
	Landscaping	1	item	£110,000	£110,000
	New VRS (assumed to replace removed barriers)	0	m	£33,000	£0
	Sub-Total				£2,496,049
	Add 20% Preliminaries including traffic management				£499,210
	Add 20% contingency				£599,052
	44% Optimism Bias				£1,581,496
	Total				£5,175,806

Exclusions:

Ground Investigation / poor ground issues
 Site surveys - topo, drainage etc.
 Utility Diversions
 VAT
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 Ecology
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 Traffic Regulation Orders

NOTE

Cost increase of 10% based on Construction Output Price index