

Approaches to Major and Minor Junctions	Investigatory Level		Expected Yearly Crashes per 100km at Current IL	Expected Yearly Crashes per 100km at Proposed IL	Expected Yearly Crash Reduction per 100km	Carriageway Length in Subnetwork (km)	Expected Yearly Crash Reduction in Subnetwork	Fatal Crashes			Serious Crashes			Slight Crashes			Non-Injury Crashes	
	Current	Proposed						%	#	£	%	#	£	%	#	£	#	£
2a (R ² = 0.9798)	0.45	0.50	48.742	34.203	14.539	42.026	6.110	2%	0.134	£193,686	10%	0.632	£106,302	87%	5.344	£89,518	108.146	£161,138
2b (R ² = 0.9494)	0.45	0.50	36.710	30.152	6.559	79.452	5.211	2%	0.114	£165,186	10%	0.539	£90,660	87%	4.558	£76,346	92.233	£137,427
3a (R ² = 0.6247)	0.45	0.50	17.488	14.863	2.626	124.884	3.279	2%	0.072	£103,942	10%	0.339	£57,047	87%	2.868	£48,040	58.037	£86,475

Approaches to Roundabouts	Investigatory Level		Expected Yearly Crashes per 100km at Current IL	Expected Yearly Crashes per 100km at Proposed IL	Expected Yearly Crash Reduction per 100km	Carriageway Length in Subnetwork (km)	Expected Yearly Crash Reduction in Subnetwork	Fatal Crashes			Serious Crashes			Slight Crashes			Non-Injury Crashes	
	Current	Achieved (Using CB)						%	#	£	%	#	£	%	#	£	#	£
2b (R ² = 0.9622)	0.45	0.60	78.584	22.341	56.243	5.417	3.046	1%	0.029	£41,892	9%	0.261	£43,929	90%	2.756	£46,169	53.921	£80,343

Single Carriageway Bends <100m	Investigatory Level		Expected Yearly Crashes per 100km at Current IL	Expected Yearly Crashes per 100km at Proposed IL	Expected Yearly Crash Reduction per 100km	Carriageway Length in Subnetwork (km)	Expected Yearly Crash Reduction in Subnetwork	Fatal Crashes			Serious Crashes			Slight Crashes			Non-Injury Crashes	
	Current	Proposed						%	#	£	%	#	£	%	#	£	#	£
2a (R ² = 0.9521)	0.50	0.55	82.619	49.930	32.689	3.920	1.281	4%	0.048	£69,185	12%	0.153	£25,744	84%	1.081	£18,100	22.681	£33,795
2b (R ² = 0.8609)	0.50	0.55	33.906	23.917	9.990	14.875	1.486	4%	0.055	£80,229	12%	0.177	£29,853	84%	1.253	£20,990	26.301	£39,189
3a (R ² = 0.7733)	0.50	0.55	23.318	16.872	6.446	13.873	0.894	4%	0.033	£48,280	12%	0.107	£17,965	84%	0.754	£12,631	15.828	£23,583

Approaches to Major and Minor Junctions	Total Crash Savings per Year	Present Value of Crash Savings for Next 10 Years
2a (R ² = 0.9798)	£550,644	£4,579,488
2b (R ² = 0.9494)	£469,618	£3,905,629
3a (R ² = 0.6247)	£295,504	£2,457,586

Additional Surfacing Cost per Year	PV of Additional Surfacing Costs for 10 Years
£66,378	£552,040
£142,668	£1,186,513
£272,708	£2,268,005

Financial Indicators	
NPV	BCR
£4,027,449	8.3
£2,719,115	3.3
£189,581	1.1

Approaches to Roundabouts	Total Crash Savings per Year	Present Value of Crash Savings for Next 10 Years
2b (R ² = 0.9622)	£212,332	£1,765,884

Additional Surface Dressing Cost per Year (10%)	PV of Additional Surface Dressing Costs for 10 Years
£11,720	£97,471

Financial Indicators	
NPV	BCR
£1,668,413	18.1

Single Carriageway Bends <100m	Total Crash Savings per Year	Present Value of Crash Savings for Next 10 Years
2a (R ² = 0.9521)	£146,824	£1,221,080
2b (R ² = 0.8609)	£170,261	£1,415,993
3a (R ² = 0.7733)	£102,460	£852,121

Additional Surface Dressing Cost per Year (10%)	PV of Additional Surface Dressing Costs for 10 Years
£13,720	£114,104
£52,062	£432,979
£48,554	£403,804

Financial Indicators	
NPV	BCR
£1,106,976	10.7
£983,013	3.3
£448,317	2.1

All Above Combined	
Total Crash Savings per Year	Present Value of Crash Savings for Next 10 Years
£1,947,643	£16,197,781

All Above Combined	
Additional Surface Treatment Cost per Year (10%)	PV of Additional Surface Dressing Costs for 10 Years
£607,810	£5,054,916

All Above Combined	
NPV	BCR
£11,142,865	3.2