

Asset Type	Commuted Sums Category	Asset Element	Basis for Lifecycle	Unit of measure	Lifecycle calculation	Rates applied		Quantity (Number)	Estimated Commuted Sum for Section 38's	Estimated Commuted Sum for Section 278's
Carriageway Surfacing	1	Hot Rolled Asphalt (Chipped / High Stone Content)	Not applicable							
	2	Stone Mastic Asphalt	Surface Course will require 5 treatments in 60 years, consisting of 4 surface treatments and 1 resurfacing.	m2	£34.00	Surface Treatment	£4.50		£0.00	£0.00
						Resurfacing	£16.00			
	2	Asphaltic Concrete (Bituminous Macadam)	Surface course will require 7 treatments in 60 years, consisting of 6 surface treatments and 1 resurfacing.	m2	£43.00	Surface Treatment	£4.50		£0.00	£0.00
						Resurfacing	£16.00			
	3	High Friction Safety Surfaces (HFS)	The surface course must be sound and able to accept a high friction surface. 10 treatments will be required to achieve 60 years.	m2	£180.00	Replace HFS	£18.00		£0.00	£0.00
3	Pigmented Asphalt (Coloured Surfacing)	Surface course will require 10 treatments in 60 years, consisting of 10 resurfacing treatments.	m2	£270.00	Resurfacing	£27.00		£0.00	£0.00	
3	Block and modular paving	The blocks will need to be lifted and the bedding/joints replaced 3 times. Additional spot replacement estimated as 10% in 60 years.	m2	£81.00	Lift and rebed	£27.00		£0.00	£0.00	
				£5.50	Spot Replacement	£55.00		£0.00	£0.00	
Carriageway Construction	1	Flexible bituminous construction	Not applicable							
	2	Additional areas (lay-bys or areas of carriageway not required by the Highway Authority)	The sum will include a one off reconstruction cost and 5 surface treatments in 60 years	m2	£107.00	Reconstruction	£84.50		£0.00	£0.00
						Surface Treatment	£4.50			
	2	Geogrid / Stress absorbing membrane	The sum will include a one off replacement cost	m2	£13.00	Replacement	£13.00		£0.00	£0.00
3	Composite (lean-mix) concrete	Composite pavements are prone to reflective cracking and will require one resurfacing treatment in the 60 years.	m2	£28.50	Resurfacing	£28.50		£0.00	£0.00	
Carriageway Ancillaries	1	Kerbs (PCC)	Not applicable							
	1	Dropped Kerbs (PCC)	Not applicable							
	1	Bus Stop Kerbs (PCC)	Not applicable							
	1	Road Markings	Not applicable							
	1	Road Studs (permanent embedded)	Not applicable							
	1	Edgings (PCC)	Not applicable							
	2	Kerbs (composite/conservation)	Replacement cost for damaged kerbs in 60 years estimated at 10% of total	linear m	£4.35	Replacement	£43.50		£0.00	£0.00
	3	Kerbs (Natural Stone)	Replacement cost for damaged kerbs in 60 years estimated at 10% of total	linear m	£5.50	Replacement	£55.00		£0.00	£0.00
	3	Road Studs (all other types)	10 replacements required in 60 years	Item	£60.00	Replacement	£6.00		£0.00	£0.00
	3	Safety Kerbs	Replacement cost for damaged kerbs in 60 years estimated at 10% of total	linear m	£4.00	Replacement	£40.00		£0.00	£0.00
Footways, Cycleways and Paved Verges	1	Asphaltic Concrete (Bituminous Macadam)	Not applicable							
	1	Tactile Paving	Not applicable							
	3	Block Paving	The blocks will need to be lifted and the bedding/joints replaced twice. Additional spot replacement estimated as 5% in 60 years.	m2	£53.00	Lift and rebed	£26.50		£0.00	£0.00
					£2.75	Spot Replacement	£55.00		£0.00	£0.00
	3	Modular Paving (Flags)	Lift and rebed slabs/flags 3 times and replace 50% of the asset in 60 years.	m2	£60.00	Lift and rebed	£20.00		£0.00	£0.00
£25.85					Replacement	£51.70	£0.00		£0.00	
3	Modular Paving (Flags) Natural Stone	Lift and rebed slabs/flags 3 times and replace 50% of the asset in 60	m2	£60.00	Lift and rebed	£20.00		£0.00	£0.00	

	3	Modular Paving (Flags) Natural Stone	years.	m2	£69.00	Replacement	£138.00		£0.00	£0.00
	3	Pigmented Asphalt Cycleways (all coloured surfacings)	Surface course will require 4 treatments in 60 years, consisting of 4 resurfacing treatments.	m2	£60.00	Resurfacing	£15.00		£0.00	£0.00
Fences and Barriers	2	Boundary Fencing (post and rail)	2 replacements in 60 years	Linear m	£80.00	Replacement	£40.00		£0.00	£0.00
	3	Vehicle Restraint System	2 replacements (barrier and terminals) in 60 years. Spot replacement (estimated at 10%). Routine inspection and maintenance every 2 years	Linear m	£36.00	Routine inspection and maintenance	£1.20		£0.00	£0.00
				Linear m	£317.00	Barrier replacement	£150.00		£0.00	£0.00
						Spot replacement	£170.00		£0.00	£0.00
	Item	£6,200.00	Terminal replacement	£3,100.00		£0.00	£0.00			
	3	Pedestrian Guardrail	2 replacements in 60 years and a spot replacement (10%)	Linear m	£130.00	Replacement	£60.00		£0.00	£0.00
3	Retaining wall <1.5m	1 replacement in 60 years	linear m	£1,625.00	Replacement	£1,625.00		£0.00	£0.00	
Street Lighting	1	Standard Column	Not applicable							
	1	Non-illuminated reflective bollard	Not applicable							
	3	Architectural/non std. <6m	Lamp change every 3 years. Painting every 25 years. 2 unit replacement in 60 years.	Item	£6,120.00	Refurbishment / Replacement	£3,060.00		£0.00	£0.00
					£1,885.80	Annual Maintenance	£31.43		£0.00	£0.00
	3	Architectural/non std. >8m	Lamp change every 3 years. Painting every 25 years. 2 unit replacement in 60 years.	Item	£6,640.00	Refurbishment / Replacement	£3,320.00		£0.00	£0.00
					£1,905.00	Annual Maintenance	£31.75		£0.00	£0.00
	3	Wall mounted lighting	Lamp change every 3 years. 2 unit replacement in 60 years.	Item	£8,040.00	Refurbishment / Replacement	£4,020.00		£0.00	£0.00
					£1,885.80	Annual Maintenance	£31.43		£0.00	£0.00
	3	Subway/ Bridge lighting	Lamp change every 3 years. 2 unit replacement in 60 years.	Item	£2,320.00	Refurbishment / Replacement	£1,160.00		£0.00	£0.00
					£1,885.80	Annual Maintenance	£31.43		£0.00	£0.00
3	Private Cable Network	1 replacement in 60 years. Inspection and maintenance every 6 years	linear m	£150.00	Replacement	£150.00		£0.00	£0.00	
				£100.00	Cyclic Maintenance	£10.00		£0.00	£0.00	
Street Furniture	2	Bus Shelters (if highway responsibility only)	2 replacements in 60 years. Inspect and cleanse 4 times per year	Item	£20,000.00	Replacement	£10,000.00		£0.00	£0.00
					£40,800.00	Cleansing	£170.00		£0.00	£0.00
	2	Bus stops (poles and flags)	6 replacements in 60 years	Item	£4,800.00	Replacement	£800.00		£0.00	£0.00
	2	Cycle rack - metal hoop (if highway responsibility only)	2 replacements in 60 years	Item	£1,000.00	Replacement	£500.00		£0.00	£0.00
	3	Seating and benches (if highway responsibility only)	4 replacements in 60 years	Item	£4,000.00	Replacement	£1,000.00		£0.00	£0.00
	3	Cycle racks - all other types (if highway responsibility only)	2 replacements in 60 years	Item	£1,000.00	Replacement	£500.00		£0.00	£0.00
	3	Bollards (dragon's teeth)	3 replacements in 60 years	Item	£180.00	Replacement	£60.00		£0.00	£0.00
	3	Bollards (plastic socketed)	1 socket replacement and 1 bollard replacements in 60 years	Item	£370.00	Replacement	£370.00		£0.00	£0.00
3	Bollards (concrete)	1 replacement in 60 years	Item	£300.00	Replacement	£300.00		£0.00	£0.00	
Verges and Landscaped areas	1	Verges (<=2m width)	Not applicable							
	3	Verges (>2m width)	5 cuts per year for 60 years	m2	£90.00	Routine grass cutting	£0.30		£0.00	£0.00
	3	Trees	Inspection and maintenance costs for 60 years	Item	£780.00	New Tree	£780.00		£0.00	£0.00
					£1,100.00	Semi mature	£1,100.00		£0.00	£0.00
					£1,900.00	Mature	£1,900.00		£0.00	£0.00
	3	Shrubs (mandatory planning requirement only)	1 cut per year for 60 years	m2	£24.00	Annual Maintenance	£0.40		£0.00	£0.00
3	Hedges (mandatory planning requirement only)	1 cut per year for 60 years	Linear m	£48.00	Annual Maintenance	£0.80		£0.00	£0.00	
1	Non-illuminated traffic signs	Not applicable								

Traffic/ pedestrian management	2	Illuminated traffic signs	Lamp change every 3 years, unit replacement twice in 60 years	Item	£2,101.20	Replacement	£1,050.60		£0.00	£0.00	
	2	Zebra Crossing	Lamp change every 3 years, unit replacement twice in 60 years	Item	£4,101.20	Replacement	£2,050.60		£0.00	£0.00	
	2	Traffic Signal junction	Traffic signal cabinets, cabling and poles will require 3 refurbishments in 60 years.	Per junction arm with traffic lights	£27,000.00	Refurbishment	£9,000.00		£0.00	£0.00	
				Per controlled pedestrian crossing	£22,500.00	Refurbishment	£7,500.00		£0.00	£0.00	
			Annual inspection and maintenance costs for 60 years.	Per junction controller	£108,000.00	Maintenance	£1,800.00		£0.00	£0.00	
	2	Signal controlled crossing (Toucan, Puffin, Pelican, Pegasus)	Traffic signal cabinets, cabling and poles will require 3 refurbishments in 60 years.	Annual inspection and maintenance costs for 60 years.	Per controlled pedestrian crossing	£42,000.00	Maintenance	£700.00		£0.00	£0.00
						£51,000.00	Refurbishment	£17,000.00		£0.00	£0.00
	3	Traffic control CCTV	CCTV cameras, cabinets, cabling and poles will require 2 refurbishments in 60 years	Annual inspection and maintenance costs for 60 years.	Per CCTV	£39,000.00	Maintenance	£650.00		£0.00	£0.00
						£28,000.00	Refurbishment	£14,000.00		£0.00	£0.00
	3	Variable message signs (VMS)	VMS, cabling and poles will require 3 refurbishments in 60 years.	Annual inspection and maintenance costs for 60 years.	Per VMS	£21,000.00	Maintenance	£350.00		£0.00	£0.00
						£90,000.00	Refurbishment	£30,000.00		£0.00	£0.00
	3	Over-height warning signs (OHWS)	OHWS, cabinets, cabling and poles will require 3 refurbishments in 60 years.	Annual inspection and maintenance costs for 60 years.	Per OHWS	£63,000.00	Maintenance	£1,050.00		£0.00	£0.00
						£75,000.00	Refurbishment	£25,000.00		£0.00	£0.00
	3	Heritage pedestrian signs (conservation areas only)	1 replacement in 60 years, arms or face may need repainting/cleaning/replacement	Item	£2,000.00	Refurbishment	£2,000.00		£0.00	£0.00	
					£600.00	Annual Maintenance	£10.00		£0.00	£0.00	
	3	Finger posts	1 replacement in 60 years, arms or face may need repainting/cleaning	Item	£4,000.00	Refurbishment	£4,000.00		£0.00	£0.00	
					£600.00	Annual Maintenance	£10.00		£0.00	£0.00	
	3	Traffic calming humps / flat top junctions (bituminous)	Road marking, surface repairs. Rate includes Traffic Regulation Order element. 2 replacements in 60 years	Item	£16,000.00	Refurbishment	£8,000.00		£0.00	£0.00	
					£2,400.00	Annual Maintenance	£40.00		£0.00	£0.00	
	3	Traffic calming humps / flat top junctions (block paved)	Road marking, surface repairs. Rate includes Traffic Regulation Order element. 2 replacements in 60 years	Item	£16,000.00	Refurbishment	£8,000.00		£0.00	£0.00	
				£2,400.00	Annual Maintenance	£40.00		£0.00	£0.00		
3	Traffic calming (chicanes)	Measures typically cost of kerbs, bollards, lines and signs 2 replacements in 60 years	item	£16,000.00	Refurbishment	£8,000.00		£0.00	£0.00		
				£2,400.00	Annual Maintenance	£40.00		£0.00	£0.00		
3	Information signs	2 replacements in 60 years	Item	£1,000.00	Refurbishment	£500.00		£0.00	£0.00		
1	Pipes	Not applicable									
1	Culverts (<1500mm)	Not applicable									
1	Gullies	Not applicable									
1	Catchpits	Not applicable									
1	Inspection chambers / manholes	Not applicable									
1	Ditches	Not applicable									
1	Grips in verges	Not applicable									
2	Petrol interceptors (<=8m3)	Annual cleansing and 1 replacement in 60 years	Item	£15,000.00	Replacement	£15,000.00		£0.00	£0.00		
			m3	£3,600.00	Routine Cleansing	£60.00		£0.00	£0.00		
2	Petrol interceptors (<=8m3)	Annual cleansing and 1 replacement in 60 years	Item	£30,000.00	Replacement	£30,000.00		£0.00	£0.00		

Drainage	4	Ferrous interceptors (2011)	Annual cleansing and 1 replacement in 60 years	m3	£2,700.00	Routine Cleansing	£45.00	£0.00	£0.00
	2	Soakaways (ring)	Cyclic cleansing (5 years) and 2 replacements in 60 years	m3	£144.00	Cyclic cleansing	£12.00	£0.00	£0.00
				Item	£4,400.00	Replacement	£2,200.00	£0.00	£0.00
	3	Storage chambers/tanks	Cyclic cleansing (5 years) and 2 replacements in 60 years	m3	£300.00	Cyclic Cleansing	£25.00	£0.00	£0.00
				m3	£520.00	Replacement	£260.00	£0.00	£0.00
	3	Pumps and pumping stations	Twice yearly service, 6 call outs and 20 replacements in 60 years	item	£26,640.00	Service	£222.00	£0.00	£0.00
					£1,962.00	Call out	£327.00	£0.00	£0.00
					£100,000.00	Replacement	£5,000.00	£0.00	£0.00
	3	Ponds- attenuation/retention	Annual inspection and routine maintenance of the pond and surrounds. 5 year cyclic cleanse and minor repairs	Item	£54,000.00	Annual work	£900.00	£0.00	£0.00
				m2	£804.00	Cyclic deep clean	£67.00	£0.00	£0.00
	3	Grass swales	Extra verge maintenance - 5 cuts per year for 60 years	m2	£90.00	Routine grass cutting	£0.30	£0.00	£0.00
	3	Vortex flow control device system	Cyclic cleansing (5 years) and 2 replacements in 60 years	Item	£8,000.00	Replacement	£4,000.00	£0.00	£0.00
				Item	£360.00	Cyclic cleansing	£30.00	£0.00	£0.00
	3	Combined drainage kerbs	Replacement cost for damaged kerbs in 60 years estimated at 30% of total. Routine cleanse every 3 years	linear m	£51.00	Replacement	£170.00	£0.00	£0.00
£200.00					Routine Maintenance	£10.00	£0.00	£0.00	
3	Weir Kerbs	Replacement cost for damaged kerbs in 60 years estimated at 20% of total. Routine cleanse every 2 years	Item	£22.00	Replacement	£110.00	£0.00	£0.00	
			Item	£195.00	Routine Maintenance	£6.50	£0.00	£0.00	
3	Filter Drains	2 replacements in 60 years. Cyclic cleanse every 5 years	linear m	£144.00	Replacement	£72.00	£0.00	£0.00	
			linear m	£19.20	Routine Maintenance	£1.60	£0.00	£0.00	
Rights of Way	1	Resurface of existing	Not applicable						
	2	Footpath	2 surface replacements in 60 years	Linear m	£130.00	Resurface	£65.00	£0.00	£0.00
	2	Bridleway	3 surface replacements in 60 years	Linear m	£240.00	Resurface	£80.00	£0.00	£0.00
	2	Byway	4 surface replacements in 60 years	Linear m	£400.00	Resurface	£100.00	£0.00	£0.00

HIGHWAY Revenue Sum	£0.00	£0.00
HIGHWAY Capital Sum	£0.00	£0.00

STRUCTURES Revenue Sum	£0.00
STRUCTURES Capital Sum	£0.00

TOTAL Revenue Sum	£0.00	£0.00
TOTAL Capital Sum	£0.00	£0.00

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TOTAL COMMUTED SUM	£0.00	£0.00