



## AUS-SPEC

### Infrastructure Specifications

### 0152 Schedule of Rates (Construction)



**0152 SCHEDULE OF RATES (CONSTRUCTION)**

IMPORTANT: This document has been adapted from the NATSPEC suite of specification templates for use in the MidCoast Council area by both Council and industry. NATSPEC regularly updates the base templates (currently in April and October each year), and Council may incorporate changes into its version of AUS-SPEC from time to time. To assist in highlighting any changes made by Council to the NATSPEC templates, the following conventions are used.

- See ANNEXURE M at the end of this document which contains (where practical) MidCoast Council customisations (also known as 'office master' text). References to the Annexure are to also be inserted at relevant clauses in the main body of the document.
- Where content is added to the main body of the document, it is to be shown **in brown text like this**.
- Where content is deleted or excluded from the main body of the document, it is to be shown ~~struck through like this~~. Such clauses are to have no effect.

Where there is a conflict between main body text and MidCoast Council specific clauses, Council's specific clauses shall prevail.

**1 SCHEDULE OF RATES**

This Worksection applies to Council projects. For private development works use of this schedule is optional, at the Superintendent's discretion.

The quantities shown are estimated quantities only and are not to be taken as correct quantities of work to be carried out or paid for under the various items of work.

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
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**0136 GENERAL REQUIREMENTS (CONSTRUCTION)**

0136.1	Site establishment	LS			
0136.2	Office for Superintendent	LS			
0136.3	Items from Principal	each			

**0161 QUALITY MANAGEMENT (CONSTRUCTION)**

0161.1	Quality system documents and records (for non-Council Contracts)	LS			
TA034 (replaces 0161.1)	Quality system documents and records (for MidCoast Council Contracts)	LS			
0161.2	Quality verification and control <b>Important note for MidCoast Council Contracts: Include the costs for these items instead at the relevant Pay Items for works that the inspections, surveys and tests are being undertaken in connection with. Do not show these costs at 0161.2.</b>	LS			

Contract:			
Contract number:			Tenderer to complete:
Council:			Tenderer's initials:
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<b>0173 ENVIRONMENTAL MANAGEMENT (AUS-SPEC)</b>					
0173.1	Environmental management system documents and records	LS			
0173.2	Environmental management verification and control	LS			

<b>0257 LANDSCAPE – ROAD RESERVE AND STREET TREES</b>					
0257.1	Vegetation of slopes 3 to 1 or flatter				
0257.1(1)	Vegetation – Seeding	m <sup>2</sup>			
0257.1(2)	Vegetation – Turfing	m <sup>2</sup>			
0257.1(3)	Watering determination by volume	kl			
0257.2	Vegetation of slopes steeper than 3:1				
0257.2(1)	Preparation of surface other than stepped batters	m <sup>2</sup>			
0257.2(2)	Preparation of surface of stepped batters	m <sup>2</sup>			
0257.2(3)	Hydromulching	m <sup>2</sup>			
0257.2(4)	Hydroseeding	m <sup>2</sup>			
0257.2(5)	Straw mulching	m <sup>2</sup>			
0257.2(6)	Watering	kl			

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0257.3	Vegetation of open drains				
0257.3(1)	Preparation and topsoiling of drains	m <sup>2</sup>			
0257.3(2)	Mechanical sowing	m <sup>2</sup>			
0257.3(3)	Hydromulching	m <sup>2</sup>			
0257.3(4)	Hydroseeding	m <sup>2</sup>			
0257.3(5)	Hand sowing	m <sup>2</sup>			
0257.3(6)	Spray with bitumen emulsion	m <sup>2</sup>			
0257.3(7)	Lining with organic fibre mat	m <sup>2</sup>			
0257.3(8)	Turfing	m <sup>2</sup>			
0257.3(9)	Watering by volume	kl			
0257.4	Landscape planting				
0257.4(1)	Provision of mulched bed for mass planting	m <sup>2</sup>			
0257.4(2)	Mass planting	each			
	Note: Include separate pay item for each particular type and stock of plant.				
0257.4(3)	Individual landscape planting of stock	each			
	Note: Include separate pay item for each particular type and stock of plant.				
0257.5	Supply of imported topsoil	m <sup>3</sup>			
0257.6	Street trees				
0257.7	Transplanting street trees				

**0281 FIRE ACCESS AND FIRE TRAILS**

0281.1	Bushfire trails	lin. m			
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**0282 PATHWAYS AND CYCLEWAYS (CONSTRUCTION)**

0282.1	Excavation	m <sup>3</sup>			
0282.2	Footpaths, driveways, median toppings and works of similar nature	m <sup>2</sup>			
0282.3	Mix design - asphalt	Ls			
0282.4	Supply and install asphalt measured by mass unless otherwise	tonnes			
0282.5	Edge strips	lin. m			
0282.6	Segmental pavers	m <sup>2</sup>			

**0292 MASONRY WALLS**

Contract:			
Contract number:		Tenderer to complete:	
Council:		Tenderer's initials:	
Submission date:		Date:	

0292.1	Excavation	m <sup>3</sup>			
0292.2	Unsuitable material below foundation	m <sup>3</sup>			
0292.3	Reinforced concrete footing	m <sup>3</sup>			
0292.4	Construct masonry wall	m <sup>2</sup>			

<b>0293 CRIB RETAINING WALLS</b>					
0293.1	Excavation	m <sup>3</sup>			
0293.2	Unsuitable material below foundation	m <sup>3</sup>			
0293.3	Reinforced concrete footing or compacted sub-base foundation	m <sup>3</sup>			
0293.4	Construct crib wall (supply and place)	m <sup>2</sup>			

<b>0294 GABION WALLS AND ROCK FILLED MATTRESSES</b>					
0294.1	Excavation	m <sup>3</sup>			
0294.2	Rock filled gabions	m <sup>3</sup>			
0294.3	Rock filled mattresses	m <sup>3</sup>			

<b>0319 AUXILIARY CONCRETE WORKS</b>					
0319.1	20 MPa Concrete works	m <sup>3</sup>			
0319.2	32 MPa Concrete works	m <sup>3</sup>			
0319.3	40 MPa Concrete works	m <sup>3</sup>			
0319.4	Precast unit	each			
0319.5	Sprayed concrete	m <sup>2</sup>			

<b>1101 TRAFFIC MANAGEMENT</b>					
1101.1	Traffic management	LS			

<b>1102 CONTROL OF EROSION AND SEDIMENTATION (CONSTRUCTION)</b>					
1102.1	Temporary erosion and sedimentation control measures	LS			
1102.2	Permanent erosion and sedimentation control - Earthworks	m <sup>3</sup>			
1102.3	Permanent inlets, spillways and low flow outlets	m <sup>2</sup>			
1102.4	Cleaning	m <sup>3</sup>			

<b>1111 CLEARING AND GRUBBING</b>					
1111.1	Clearing and grubbing	ha			
1111.2	Removal of trees outside limits of clearing	each			

Contract:					
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1111.3	Woodchipping and stockpiling	m <sup>3</sup>			
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**1112 EARTHWORKS (ROAD RESERVE)**

1112.1	Removal and stockpiling of topsoil	m <sup>3</sup>			
1112.2	General earthworks	m <sup>3</sup>			
1112.3	Unsuitable material to spoil	m <sup>3</sup>			
1112.4	Selected material	m <sup>3</sup>			
1112.5	Haulage of spoil	m <sup>3</sup>			
1112.6	Haulage of borrow	m <sup>3</sup>			

**1113 STABILISATION**

Stabilisation using any of the following binders: cement, cementitious blends, quicklime, hydrated lime, dry powdered polymer:

1113.1	In situ stabilisation	m <sup>2</sup>			
1113.2	Stationary plant mixed pavements	m <sup>2</sup>			

Foamed bitumen stabilisation:

1113.3	Test to determine the foaming characteristics of the bitumen as per AGPT/T301	each			
1113.4	Test to the mixing of hot bitumen and water into granular material to produce sample product of foamed bitumen as per AGPT/T302	each			
1113.5	Preparation, and field compaction of test cylinder moulds for laboratory testing.	each			
1113.6	Laboratory testing to determine resilient modulus using repeated load indirect tensile techniques	each			
1113.7	Pre-pulverisation of existing material	m <sup>2</sup>			
1113.8	Supply and spread of additional granular material	Tonne			
1113.9	Supply and delivery of supplementary binder	Tonne			
1113.10	Supply bitumen and additives	Tonne			
1113.11	Spread and mix supplementary binder, and mix incorporate bitumen	m <sup>2</sup>			
1113.12	Compacting, trimming and jointing	m <sup>2</sup>			
1113.13	Density testing	LS			
1113.14	Rise and fall cost of bitumen	Tonne			

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<b>1121 OPEN DRAINS</b>					
1121.1	Excavation - catch, contour and minor diversion drains	lin. m			
1121.2	Excavation - inlet, outlet and diversion channels	m <sup>3</sup>			
1121.3	Concrete lining of open drains	m <sup>2</sup>			
1121.4	Stone pitching of open drains	m <sup>2</sup>			
1121.5	Batter drains	lin. m			

<b>1122 KERBS AND CHANNELS (GUTTERS)</b>					
1122.1	Kerb and channel (gutter)	lin. m			
1122.2	Adjustments to gully pits	each			

<b>1130 RURAL CONCRETE BASE</b>					
1130.1	Supply and place steel fibre reinforced concrete in base	m <sup>3</sup>			
1130.2	Supply and install steel bar reinforcement	m <sup>2</sup>			
1130.3	Transverse expansion/contraction and isolation joints	Lin m			
1130.4	Supply and place concrete in base	m <sup>3</sup>			
1130.5	Finish, cure and texture base	m <sup>2</sup>			
1130.6	Supply and place wire reinforcing fabric	m <sup>2</sup>			
1130.7	Supply and install steel bar reinforcement	tonne			
1130.8	Longitudinal tied joints	Lin m			
1130.9	Longitudinal isolation joints	Lin m			
1130.10	Slab anchors	m <sup>2</sup>			
1130.11	Bridge approach slabs	m <sup>2</sup>			

<b>1131 ROLLER COMPACTED CONCRETE SUBBASE</b>					
1131.1	Supply and place rolled concrete	m <sup>3</sup>			
1131.2	Finish and cure rolled concrete	m <sup>2</sup>			

<b>1132 LEAN MIX CONCRETE SUBBASE</b>					
1132.1	Supply and place concrete in subbase	m <sup>3</sup>			
1132.2	Finish and cure subbase	m <sup>2</sup>			
1132.3	Crack treatment by stress alleviating membrane strip (for asphalt bases)	lin. m			

Contract:					
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1132.4	Bond breaker	m <sup>2</sup>			
1132.5	Subgrade beams	m <sup>3</sup>			

<b>1133 PLAIN AND REINFORCED CONCRETE BASE</b>					
1133.1	Supply and place concrete in base	m <sup>3</sup>			
1133.2	Finish, cure and texture base	m <sup>2</sup>			
1133.3	Supply and place wire reinforcing fabric	m <sup>2</sup>			
1133.4	Supply and install steel bar reinforcement	tonne			
1133.5	Transverse contraction joints	lin. m			
1133.6	Transverse expansion and isolation joints	lin. m			
1133.7	Longitudinal tied joints	lin. m			
1133.8	Longitudinal isolation joints	lin. m			
1133.9	Slab anchors	m <sup>3</sup>			
1133.10	Bridge approach slabs	m <sup>3</sup>			

<b>1134 STEEL FIBRE REINFORCED CONCRETE BASE</b>					
1134.1	Supply and place steel fibre reinforced concrete in base	m <sup>3</sup>			
1134.2	Finish, cure and texture base	m <sup>2</sup>			
1134.3	Supply and place wire reinforcing fabric (if applicable)	m <sup>2</sup>			
1134.4	Supply and install steel bar reinforcement (if applicable)	tonne			
1134.5	Transverse contraction joints	lin. m			
1134.6	Transverse expansion and isolation joints	lin. m			
1134.7	Longitudinal tied joints	lin. m			
1134.8	Longitudinal isolation joints	lin. m			
1134.9	Slab anchors	m <sup>3</sup>			
1134.10	Bridge approach slabs	m <sup>3</sup>			

<b>1135 CONTINUOUSLY REINFORCED CONCRETE BASE</b>					
1135.1	Supply and place concrete in base	m <sup>3</sup>			
1135.2	Finish, cure and texture base	m <sup>2</sup>			
1135.3	Supply and place wire reinforcing fabric	m <sup>2</sup>			

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1135.4	Supply and place steel bar reinforcement	tonne			
1135.5	Longitudinal tied joints	lin. m			
1135.6	Longitudinal isolation joints	lin. m			
1135.7	Slab anchors	m <sup>3</sup>			
1135.8	Bridge approach slabs	m <sup>3</sup>			

**1136 COLD MILLING OF ASPHALT AND BASE COURSE**

1136.1	Cold milling of asphalt and base course	m <sup>2</sup>			
1136.2	Milling over concrete structures	m <sup>2</sup>			
1136.3	Investigation of thickness of asphalt over concrete structures	each			

**1141 FLEXIBLE PAVEMENT BASE AND SUBBASE**

1141.1	Supply, place and compact subbase course	m <sup>2</sup>			
1141.2	Supply, place and compact base course	m <sup>2</sup>			

**1142 COLD MIX ASPHALT**

1142.1	Supply cold mix (ex bins)	tonne			
1142.2	Supply and deliver cold mix	tonne			
1142.2(1)	{Depot Site 1}				
1142.2(2)	{Depot Site 2}				
1142.2(3)	{Job site}				

**1143 SPRAYED BITUMINOUS SURFACING**

1143.1	Supply and spray primer, primerbinder (including preparation of surface)	Litre			
1143.1(00)	AMC00				
1143.1(0)	AMC0				
1143.1(1)	AMC1				
1143.1(2)	AMC2				
1143.1(3)	AMC3				
1143.1(4)	AMC4				
1143.1(5)	AMC5				
1143.1(6)	AMC6				
1143.1(7)	AMC7				
1143.1(8)	Field cutback bitumen (nett bitumen)				

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<b>1143 SPRAYED BITUMINOUS SURFACING</b>					
1143.2(1)	Supply and spray binder – class 170 bitumen	litre			
1143.2(2)	Supply and spray binder – class 320 bitumen	litre			
1143.3	Supply, incorporate and spray cutter oil, flux oil and adhesion agent in binder	litre			
1143.5	Supply, incorporate and spray flux oil	litre			
1143.6	Supply, precoat, apply and roll aggregate	m <sup>3</sup>			
1143.6(1)	5 mm				
1143.6(2)	7 mm				
1143.6(3)	10 mm				
1143.6(4)	14 mm				
1143.6(5)	20 mm				
1143.7	Supply and spray polymer modified binder	litre			
1143.8	Supply and incorporate geotextile	m <sup>2</sup>			
1143.9	Sweeping	m <sup>2</sup>			

Note: Use either of the **Pay items** and measurement rules for the *1143 Sprayed bituminous surfacing* worksection as shown in the Tables **Measurement by area or length** or **Measurement by quantity of material supplied**.

These Tables are alternatives to the *0152 Schedules of rates – supply projects* worksection for specific projects.

Refer also to 1143 clause 8.9.

#### **1143 Measurement by area or length**

1143.1	Priming, primersealing or sealing	m <sup>2</sup>			
1143.2	Removal and disposal of existing raised pavement markers	km			

#### **1143 Measurement by quantity of material supplied**

1143.3	Supply and spray primer or primerbinder (including preparation of surface) at 15°C	litre			
1143.4	Supply and spray binder (including adhesion agent where required, and preparation of surface) at 15°C	litre			
1143.5	Supply, incorporate and spray cutter oil, flux oil and adhesion agent in binder at ambient temperature or 15°C	litre			
1143.6	Supply, precoat, apply aggregate	m <sup>3</sup>			
1143.7	Roll and incorporate aggregate	m <sup>2</sup>			

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<b>1143 SPRAYED BITUMINOUS SURFACING</b>					
1143.8	Supply and place geotextile	m <sup>2</sup>			
1143.9	Sweeping	m <sup>2</sup>			

<b>1144 ASPHALT (ROADWAYS)</b>					
1144	Supply and application of tack coat	litre			
1144.2	Dense graded asphalt in intermediate courses	tonne			
1144.2(1)	5 mm				
1144.2(2)	10 mm				
1144.2(3)	14 mm				
1144.2(4)	20 mm				
1144.2(5)	28 mm				
1144.2(6)	40 mm				
1144.3	Dense graded asphalt in wearing course	tonne			
1144.3(1)	10 mm				
1144.3(2)	14 mm				
1144.3(3)	20 mm				
1144.3(4)	Residential Type A				
1144.3(5)	Residential Type B				
1144.3(6)	Residential Type R				
1144.4	Dense graded asphalt over an existing pavement	tonne			
1144.4(1)	5 mm				
1144.4(2)	10 mm				
1144.4(3)	14 mm				
1144.5	Open graded asphalt in wearing course	tonne			
1144.5(1)	10 mm				
1144.5(2)	14 mm				
1144.6	Open graded asphalt in drainage course	tonne			
1144.6(1)	28 mm				
1144.6(2)	40 mm				

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<b>1144 ASPHALT (ROADWAYS)</b>					
<p>Note: Use either of the <b>Pay items</b> and measurement rules for the 1144 <i>Asphaltic Concrete (Roadways)</i> worksection as shown in the Tables <b>Measurement by area or length</b> or <b>Measurement by quantity of material supplied</b>.</p> <p>These Tables are alternatives to the <i>0152 Schedules of rates – supply projects</i> worksection for specific projects.</p> <p>Refer also to 1144 clause 7.9.</p>					
1144.1	Mix design	LS			
<b>Measurement by mass</b>					
1144.2	Supply and install asphalt measured by mass other than specified in the ANNEXURE – SCHEDULE OF JOB DETAILS	tonne			
<b>Measurement by area and thickness</b>					
1144.2	Supply and install asphalt determined from measurement of area and thickness where specified in the ANNEXURE – SCHEDULE OF JOB DETAILS	tonne			

<b>1145 SEGMENTAL PAVING</b>					
1145.1	Segmental paving – Road pavements	m <sup>2</sup>			

<b>1146 MICROSURFACING</b>					
1146.1	Surface preparation and tack bitumen coat	m <sup>2</sup>			
1146.2	Correction of rutting prior to placement area	m <sup>3</sup>			
1146.3	Size 4 bituminous microsurfacing	m <sup>3</sup>			
1146.4	Size 7 bituminous microsurfacing	m <sup>3</sup>			

<b>1147 SPRAYED PRESERVATION SURFACING</b>					
<b>Measurement by surfacing area or length table</b>					
1147.1	Surfacing treatment	m <sup>2</sup>			
1147.2	Existing raised markers	m			
<b>Measurement by quantity of material supplied table</b>					
1147.3	Surfacing treatment	Litres			
1147.4	Sweeping	m <sup>2</sup>			

<b>1151 ROAD OPENINGS AND RESTORATIONS (CONSTRUCTION)</b>					
1151.1	Sawcut existing pavement/footpath	lin. m			
1151.1(1)	Bituminous carriageway pavement				
1151.1(2)	Bituminous footpath				
1151.1(3)	Concrete footpath, including textured or patterned concrete.				
1151.2	Remove existing pavement/footpath	m <sup>2</sup>			

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<b>1151 ROAD OPENINGS AND RESTORATIONS (CONSTRUCTION)</b>					
1151.2(1)	Removal to stockpile				
1151.2(2)	Disposal off-site				
1151.3	Segmental paving units	m <sup>2</sup>			
1151.3(1)	Take up and stack existing units – carriageway				
1151.3(2)	Take up and stack existing units – footpath				
1151.3(3)	Lay existing units – carriageway				
1151.3(4)	Lay existing units – footpath				
1151.3(5)	Supply and lay new units – carriageway				
1151.3(6)	Supply and lay new units – footpath				
1151.4	Remove existing edge strips	lin. m			
1151.5	Grass turf	m <sup>2</sup>			
1151.5(1)	Take up and store existing turf	m <sup>2</sup>			
1151.5(2)	Lay existing turf				
1151.5(3)	Supply and lay new turf				
1151.6	Verge plants, shrubs and trees	each			
1151.6(1)	Take up and store existing				
1151.6(2)	Replant existing				
1151.7	Stockpiling of topsoil	m <sup>3</sup>			
1151.8	Trench excavation	m <sup>3</sup>			
1151.8(1)	Excavation to stockpile				
1151.8(2)	Excavation to disposal off-site				
1151.9	Trench backfill	m <sup>3</sup>			
1151.9(1)	From stockpile material				
1151.9(2)	From imported material				
1151.10	Temporary pavement – carriageway and footpath	m <sup>2</sup>			
1151.11	Temporary steel plating	m <sup>2</sup>			
1151.12	Subbase	m <sup>2</sup>			
1151.13	Base	m <sup>2</sup>			
1151.14	Bituminous wearing surface	m <sup>2</sup>			
1151.15	Footpath	m <sup>2</sup>			
1151.15(1)	Asphalt/sprayed bituminous seal				
1151.15(2)	Plain concrete				
1151.15(3)	Textured/patterned concrete				
1151.16	Cleanup	m <sup>2</sup>			

<b>1152 ROAD OPENINGS AND RESTORATIONS (UTILITY AUTHORITIES)</b>					
1152.1	Traffic control	Ls			
1152.2	Control of erosion and sedimentation	Ls			
1152.3	Sawcut existing pavement/footpath	lin. m			

Contract:					
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<b>1152 ROAD OPENINGS AND RESTORATIONS (UTILITY AUTHORITIES)</b>					
1152.3(1)	Bituminous carriageway pavement				
1152.3(2)	Bituminous footpath				
1152.3(3)	Concrete footpath, including textured or patterned concrete.				
1152.4	Remove existing pavement/footpath	m <sup>2</sup>			
1152.5	Segmental pavers (including decorative segmental pavers)	m <sup>2</sup>			
1152.5(1)	Take up and stack existing pavers – carriageway				
1152.5(2)	Take up and stack existing pavers – footpath				
1152.5(3)	Lay existing pavers – carriageway				
1152.5(4)	Lay existing pavers – footpath				
1152.5(5)	Supply and lay new pavers – carriageway				
1152.5(6)	Supply and lay new pavers – footpath				
1152.6	Remove existing edge strips	lin. m			
1152.7	Grass turf	m <sup>2</sup>			
1152.7(1)	Take up and store existing turf				
1152.7(2)	Lay existing turf				
1152.7(3)	Supply and lay new turf				
1152.8	Verge plants, shrubs and trees	each			
1152.8(1)	Take up and store existing				
1152.8(2)	Plant existing				
1152.8(3)	Plant new				
1152.8(4)	Disposal of unsuitable	m <sup>3</sup>			
1152.9	Stockpiling of topsoil	m <sup>3</sup>			
1152.10	Trench excavation	m <sup>3</sup>			
1152.10(1)	To stockpile				
1152.10(2)	Disposal off-site (including unsuitable material)				
1152.11	Trench backfill	m <sup>3</sup>			
1152.11(1)	From stockpile material				
1152.11(2)	From imported material				
1152.11(3)	25:1 sand:cement mix				
1152.11(4)	14:1 sand:cement mix				
1152.12	Temporary pavement – carriageway and footpath	m <sup>2</sup>			
1152.13	Temporary steel plating	m <sup>2</sup>			
1152.14	Flexible subbase	m <sup>2</sup>			
1152.15	Flexible base	m <sup>2</sup>			
1152.16	Carriageway wearing surface (course)	m <sup>2</sup>			
1152.16(1)	Asphaltic concrete				

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<b>1152 ROAD OPENINGS AND RESTORATIONS (UTILITY AUTHORITIES)</b>					
1152.16(2)	Sprayed bituminous surfacing				
1152.16(3)	Concrete				
1152.17	Footpaths and driveways	m <sup>2</sup>			
1152.17(1)	Asphalt/sprayed bituminous seal				
1152.17(2)	Plain concrete				
1152.17(3)	Textured/patterned concrete				
1152.18	Clean up	m <sup>2</sup>			

<b>1171 SUBSURFACE DRAINAGE</b>					
1171.1	Subsoil drain pipe – Corrugated circular plastic pipe and fittings, plain wall plastic pipe, thick walled PVC-U pressure pipe or prefabricated geocomposite drain	lin. m			
1171.2	Filter material Type A backfill for single and first stage filters	m <sup>3</sup>			
1171.3	Filter material Type B backfill for second stage filters	m <sup>3</sup>			
1171.4	No fines concrete	m <sup>3</sup>			
1171.5	Outlet structures for subsurface drainage pipes	each			
1171.6	Supply of geotextile	m <sup>2</sup>			
1171.7	Establishment – Setting out				
1171.8	Clean-out structures	each			

<b>1172 SUBSOIL AND FORMATION DRAINS</b>					
1172.1	Excavation	m <sup>3</sup>			
1172.2	Supply, placement and compaction of backfill material (other than filter material) for subsoil and formation drains	m <sup>3</sup>			

<b>1173 PAVEMENT DRAINS</b>					
1173.1	Excavation	m <sup>3</sup>			
1173.2	Subsoil drain pipe	lin. m			

<b>1174 DRAINAGE BLANKETS</b>					
1174.1	Supply of installations of filter material Type A drainage blankets and side trenches	m <sup>3</sup>			
1174.2	Supply and installation of filter material Type B drainage blankets and side drainage where applicable	m <sup>3</sup>			
1174.3	Supply and placement of geotextile	m <sup>2</sup>			

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1174.4	Drainage blanket side trenches, supply and installation of subsoil pipe, flushing points and outlet filter, together with filter material supply up to subgrade level.	lin. m			
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**1191 PAVEMENT MARKINGS**

1191.1	Pavement marking paint – longitudinal lines	km			
1191.2	Pavement marking paint – transverse lines, symbols, legends, arrows, chevrons, traffic islands and kerbs				
1191.2(1)	Transverse lines	lin. m			
1191.2(2)	Arrow	each			
1191.2(3)	Symbols	each			
1191.2(4)	Chevrons	m <sup>2</sup>			
1191.2(5)	Kerbs	m			
1191.2(6)	Traffic Islands	m <sup>2</sup>			
1191.2(7)	Legends	each or m <sup>2</sup>			
1191.3	Thermoplastic (or cold applied plastics) pavement marking material – longitudinal lines	km			
1191.4	Thermoplastic (or cold applied plastics) pavement marking material – transverse lines, symbols, legends and arrows				
1191.4(1)	Transverse lines	lin. m			
1191.4(2)	Arrow	each			
1191.4(3)	Symbols	each			
1191.4(4)	Chevrons	m <sup>2</sup>			
1191.4(5)	Kerbs	m			
1191.4(6)	Traffic islands	m <sup>2</sup>			
1191.4(7)	Legends	each or m <sup>2</sup>			
1191.5	Raised pavement markers (all applications)	each			
1191.6	Removal of pavement markings	m <sup>2</sup>			

**1192 SIGNPOSTING**

1192.1	Supply and delivery of signs (area less than 1 m <sup>2</sup> )	each			
1192.2	Supply and delivery of signs (area between 1 and 3 m <sup>2</sup> )	each			
1192.3	Supply and delivery of signs (area greater than 3 m <sup>2</sup> )	m <sup>2</sup>			
1192.4	Supply and delivery of sign support structures (standard round galvanized posts)	each			

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<b>1192 SIGNPOSTING</b>					
1192.5	Supply and delivery of sign support structures (purpose-designed)	each			
1192.6	Supply and delivery of anchor bolt assemblies	each			
1192.6(1)	Mk 1				
1192.6(2)	Mk 2				
1192.6(3)	Mk 3				
1192.7	Supply and delivery of reinforcement cages	each			
1192.7(1)	(Size)				
1192.7(2)	(Size)				
1192.7(3)	(Size)				
1192.8	Erection of sign structures (standard round galvanized posts)	each			
1192.9	Erection of sign structures (purpose-designed)	each			
1192.10	Erection of signs (to standard round galvanized posts)	each			
1192.11	Erection of signs (to purpose-designed structures)	m <sup>2</sup>			
1192.12	Adjustment of existing signs and support structures	m <sup>2</sup>			

<b>1193 GUIDE POSTS</b>					
1193.1	Guide posts (supply and erect)	each			
1193.2	Removal of existing guide posts	each			

<b>1194 NON-RIGID ROAD SAFETY BARRIER SYSTEMS</b>					
1194.1	Single sided road safety barrier	lin. m			
1194.1(1)	Single W-beam				
1194.1(2)	Nested W-beam				
1194.1(3)	Single Thrie-beam				
1194.1(4)	Nested Thrie-beam				
1194.1(5)	Single modified blackout Thrie-beam				
1194.1(6)	Nested modified blackout Thrie-beam				
1194.1(7)	Single W-Thrie-beam transition				
1194.1(8)	Nested W-Thrie-beam transition				
1194.2	Modified eccentric loader terminal (melt)	each			
1194.3	Terminal section	each			
1194.3(1)	Leading terminal				
1194.3(2)	Trailing terminal				
1194.4	Connectors to rigid road safety barriers (rsb) or bridge parapet	each			
1194.4(1)	W-beam to RSB				

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1194.4(2)	W-beam to Thrie-beam to RSB				
1194.4(3)	Thrie-beam to RSB				
1194.5	Delineator brackets	each			
1194.6	Double sided road safety barrier	lin. m			
1194.6(1)	Single W-beam				
1194.6(2)	Nested W-beam				
1194.6(3)	Single Thrie-beam				
1194.6(4)	Nested Thrie-beam				
1194.6(5)	Single modified blackout Thrie-beam				
1194.6(6)	Nested modified blackout Thrie-beam				
1194.6(7)	Single W-Thrie-beam transition				
1194.6(8)	Nested W-Thrie-beam transition				
1194.7	Double sided road safety barrier terminal section	each			
1194.8	Concrete footings for posts	each			

**1195 RIGID ROAD SAFETY BARRIER SYSTEMS**

1195.1	Road safety barrier	lin. m			
1195.1(1)	Type F	lin. m			
1195.1(2)	Type VCB	lin. m			
1195.2	Terminal ends	each			

**1196 BOUNDARY FENCES FOR ROAD RESERVES**

1196.1	Supply and erection of boundary fencing	lin. m			
1196.2	Supply and erection of boundary fence gates	each			
1196.3	Supply and installation of stock grid	each			
1196.4	Removal of existing fence	lin. m			

**1197 STREET LIGHTING**

1197.1	Installation of street lighting	LS			
1197.2	Excavation	m <sup>3</sup>			
1197.3	Unsuitable material below foundation	m <sup>3</sup>			
1197.4	Reinforced concrete footing	m <sup>3</sup>			
1197.5	Installation of conduits	lin. m			
1197.6	Installation of cable pits	each			
1197.7	Installation of poles and columns	unit			

**1341 WATER SUPPLY – RETICULATION (CONSTRUCTION)**

1341.1	Excavation and backfill for water reticulation	m <sup>3</sup>			
1341.2	Supply and lay pipe and fittings	lin. m			
1341.3	Supply and install valves	each			

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1341.4	Supply and install hydrants	each			
1341.5	Connection to existing	each			
1341.6	Trench temporary supports left in place	LS			
1341.7	Concrete encasement	lin. m			
1341.8	Inadequate foundation material under water supply pipes	m <sup>3</sup>			
1341.9	Manuals	LS			

**1342 WATER SUPPLY – PUMP STATIONS (CONSTRUCTION)**

1342.1	In-line pressure booster pumping station	each			
1342.2	Commissioning	LS			
1342.3	Manuals	LS			

**1351 STORMWATER DRAINAGE (CONSTRUCTION)**

1351.1	Excavation and backfilling for stormwater drainage culverts and structures	m <sup>3</sup>			
1351.2	Excavation for pipe drainage, pipes, structures	m <sup>3</sup>			
1351.3.	Inadequate foundation material under drainage structures and open drains	m <sup>3</sup>			

**1352 PIPE DRAINAGE**

1352.1	Supply and install pipe drainage culverts, pipes, structures	lin. m			
(Include separate pay item for each particular type, class and size of pipe)					

**1353 PRECAST BOX CULVERTS**

1353.1	In situ base slab	m <sup>3</sup>			
1353.2	Precast base slab for small culverts	m <sup>3</sup>			
1353.3	Precast concrete box culverts (supply and install)	lin. m			
	<b>Note: Include separate pay item for each particular type and size of box culvert.</b>				

**1354 DRAINAGE STRUCTURES**

1354.1	Supply and place headwalls and wingwalls	m <sup>3</sup>			
1354.2	Supply and place pits, dissipators channel basins and other supplementary structures	each			
	<b>Note: Include separate pay item for each particular type and size of structure.</b>				
1354.3	Supply and place bulkhead structures	each			

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	Note: Include separate pay item for each particular size of bulkhead.				
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<b>1361 SEWERAGE SYSTEMS – RETICULATION (CONSTRUCTION)</b>					
1361.1	Excavation and backfill for sewers	m <sup>3</sup>			
1361.2	Sewer pipe	lin. m			
1361.3	Maintenance holes and maintenance shafts, maintenance chamber and inspection shaft structures	each			
1361.4	Covers and surrounds	each			
1361.5	Connection to existing sewer, MH or structures	each			
1361.6	Trench temporary supports left in place	LS			
1361.7	Concrete encasement	lin. m			
1361.8	Commissioning	LS			
1361.9	Manuals	LS			
1361.10	Inadequate foundation material under sewerage pipes	m <sup>3</sup>			

<b>1362 SEWERAGE SYSTEMS – PUMP STATIONS (CONSTRUCTION)</b>					
1362.1	Pumping station	LS			
1362.2	Sewer pumps	LS			
1362.3	Commissioning	LS			
1362.4	Manuals	LS			

<b>1391 SERVICE CONDUITS</b>					
1391.1	Supply and lay PVC-U conduit	lin. m			
1391.2	Pits	each			

<b>1392 TRENCHLESS CONDUIT INSTALLATION</b>					
1392.1	Mobilisation, establishment and demobilisation	item			
1392.2	Trenchless installation of conduit	lin. m			
1392.3	Bulkheads	each			
1392.4	Excavation for temporary pits	m <sup>3</sup>			
1392.5	Backfill for temporary pits	m <sup>3</sup>			

<b>TOTAL OF EXTENDED AMOUNTS OF SCHEDULE OF RATES:</b>	<b>\$</b>
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## 2 AMENDMENT HISTORY

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