

BILL OF QUANTITIES

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|---|-----|-------------------|-----------------|------------------|
| | SERIES 0: GENERAL | | | | |
| | SECTION 001: GENERAL REQUIREMENTS AND CHARGES | | | | |
| | Preliminary and general charges | | | | |
| 001.01 | Fixed charges (R250 000 Max) | - | Lump Sum | - | |
| 001.03 | Finding existing services (hand excavation) | 900 | m³ | | |
| B001.04 | Compliance with the Occupational Health and Safety Act and applicable Regulations | | | | |
| B001.04.01 | Provision of a Health and safety plan | - | Lump Sum | | |
| B001.04.02 | Provision of a Health and safety file | 36 | Per Month | | |
| B001.04.04 | Provision of a safety officer (Full time) | 36 | Per Month | | |
| B001.04.05 | Health and Safety training | 36 | Per Month | | |
| B001.04.06 | Provision of personal protective clothing and equipment | 540 | Per worker/ Month | | |
| B001.04.07 | Provision of safety devices, signs and barricades | 36 | Per site/ Month | | |
| B001.04.08 | Other obligations | | | | |
| B001.04.08.01 | Implementation of a Health and safety plan | - | Lump Sum | - | |
| TOTAL CARRIED FORWARD | | | | | |

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| TOTAL BROUGHT FORWARD | | | | | |
| B001.05 | Community liaison officer | | | | |
| B001.05.01 | Monthly Wage | - | month | CoT's first notch Task -T5 | |
| B001.05.02 | Percentage on item B001.05.01 for charges and profit (10% max.) | Rate only | % | | |
| B001.06 | Essential and Unforeseen | | | | |
| B001.06.01 | Invoice for service or material | - | Prov Sum | R 6 000 000,00 | R 6 000 000,00 |
| B001.06.02 | Percentage on item B001.06.01 for charges and profit (10% max.) | Rate only | % | | |
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| SERIES 1 | ANCILLARY WORK | | | | |
| Section 101 | Site Clearing and Grubbing | | | | |
| 101.01.01 | Areas | 1000 | m ² | | |
| 101.01.02 | Strips (2m wide) | 400 | m | | |
| 101.02 | Cutting down and removing of trees | | | | |
| 101.02.01 | Girth of 1 – 2 meters | 15 | No | | |
| 101.02.02 | Girth of 2 – 3 meters | 15 | No | | |
| 101.02.03 | Girth of 3 – 4 meters | 10 | No | | |
| 101.03 | Grubbing and removal of the stumps And roots on larger trees with a girth: | | | | |
| 101.03.01 | Girth of 1 – 2 meters | 20 | No | | |
| 101.03.02 | Girth of 2 – 3 meters | 15 | No | | |
| 101.03.03 | Girth of 3 – 4 meters | 15 | No | | |
| 101.05 | Removal and disposal of specific elements | | | | |
| 101.05.01 | Concrete kerbing/ kerbing combination | 150 | m | | |
| 101.05.02 | Concrete or brick elements (reinforced or un-reinforced) | | | | |
| 101.05.02.01 | Plain concrete | 90 | m ³ | | |
| 101.05.02.02 | Reinforced concrete | 90 | m ³ | | |
| 101.05.02.03 | (LI) 230 mm brick work | 90 | m ² | | |
| 101.05.02.04 | (LI) 115 mm brick work | 90 | m ² | | |
| 101.05.02.05 | (LI) Pre-cast walls | 140 | m ² | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| 101.05.03 | Asphalt surfacing | 2000 | m² | | |
| B101.05.04 | (LI) Interlocking / non-interlocking paving blocks | 900 | m² | | |
| B101.05.05 | (LI) Wire fencing | 190 | m² | | |
| B101.06 | DISMANTLE AND REMOVE PIPELINES AND CULVERTS | | | | |
| B101.06.01 | Pipelines of diameter | | | | |
| B101.06.01.01 | Up to 150mm | 240 | m | | |
| B101.06.01.02 | Over 150mm up to 300mm | 240 | m | | |
| B101.06.01.03 | Over 300mm up to 750mm | 240 | m | | |
| B101.06.01.04 | Over 750mm up to 1 650mm | 240 | m | | |
| B101.06.02 | Culverts in height | | | | |
| B101.06.02.01 | 600 - 900 height | 190 | m | | |
| B101.06.02.02 | 900 – 1 200 height | 190 | m | | |
| B101.06.02.03 | 1 200 – 1 500 height | 190 | m | | |
| B101.07 | Cleaning of kerb inlets, junction boxes, grids, outlet structures and concrete channels. The rate will include the Removal of spoil material (within the free-haul distance of 3 km) | | | | |
| B101.07.01 | Kerb inlets | 8000 | No | | |
| B101.07.02 | Junction boxes | 350 | No | | |
| B101.07.03 | Grids | 80 | No | | |
| B101.07.04 | Outlet structures | 50 | No | | |
| B101.07.05 | Concrete channels | 3000 | m³ | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| Section 102 | Accommodation of traffic | | | | |
| 102.12 | Provision of temporary bridges for maintaining access to properties | | | | |
| 102.12.01 | Temporary pedestrian bridges | 6 | No | | |
| 102.12.02 | Temporary vehicular bridges | 6 | No | | |
| 102.13 | Moving of temporary bridges to and their re-erection in entirely new position | | | | |
| 102.13.01 | Temporary pedestrian bridges | 6 | No | | |
| 102.13.02 | Temporary vehicular bridges | 20 | No | | |
| 102.14 | Temporary traffic-control facilities | | | | |
| B102.14.01 | Flagmen | 2 | per site/day | | |
| 102.14.02 | Portable Stop and Go signs | 4 | no | | |
| 102.14.04 | Road signs, TR-series, 1200mm in diameter or 900mm x 675mm if rectangular | 6 | no | | |
| 102.14.05 | Road signs, TW-series, 1524mm sides | 4 | no | | |
| 102.14.06 | Road signs, TG-series | 20 | m² | | |
| 102.14.07 | Danger plates and delineators | 150 | no | | |
| 102.14.08 | Moveable barricade / road sign combination | 10 | no | | |
| B102.14.09 | Traffic cones | 100 | no | | |
| B102.14.10 | Plastic New Jersey barrier | 60 | no | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| Section 103 | Overhaul | | | | |
| B103.01 | Overhaul on material hauled outside the defined free-haul boundaries (Free-haul boundaries will be defined as 3km outside the indicated site boundaries) | 10000 | m³ - km | | |
| B103.06 | TRANSPORT OF HEAVY MACHINERY (Moving of equipment with caterpillar tracks to other work sites in the municipal area) | 12 | Per event | | |
| SECTION 104: LANDSCAPING AND GRASSING | | | | | |
| 104,01 | Trimming | | | | |
| 104.01.01 | Machine trimming | 1500 | m² | | |
| 104.01.02 | (LI) Hand trimming | 1000 | m² | | |
| 104,03 | Preparation of areas for the establishment of grass and ground covers | | | | |
| 104.03.01 | Scarifying | 2 | ha | | |
| 104.03.02 | Top soiling on the Site with: | | | | |
| 104.03.02.02 | Topsoil provided by the Contractor From other sources | 1500 | m³ | | |
| 104.03.04 | Delivery and application of chemical fertilizer | | | | |
| 104.03.04.01 | Lime | 2 | t | | |
| 104.03.04.02 | Super phosphate | 2 | t | | |
| 104.03.04.03 | Limestone ammonium phosphate | 2 | t | | |
| 104.03.04.04 | 2:3:3 (22) | 2 | t | | |
| 104,04 | Establishment of grass | | | | |
| | .02 (LI) Placing of sods (Kikuyu) | 1500 | m² | | |
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| | SERIES 2: EARTHWORKS | | | | |
| 201.02 | Temporary stockpiling of material (The unit of measurement shall be the cubic metre of material stockpiled on the written instructions of the Engineer, measured in its final position after placing and compaction.) | 600 | m³ | | |
| 202.01.01 | Trench excavation <u>Up to 1m wide</u> | | | | |
| 202.01.01.01 | Up to 1,0m deep | 900 | m³ | | |
| 202.01.01.02 | More than 1,0m and up to 1,5m deep | 900 | m³ | | |
| 202.01.01.03 | More than 1,5m and up to 2,0m deep | 80 | m³ | | |
| 202.01.01.04 | More than 2,0m and up to 2,5 m deep | 900 | m³ | | |
| 202.01.01.05 | More than 2,5m and up to 3,0 m deep | 120 | m³ | | |
| 202.01.01.06 | More than 3,0m deep | 120 | m³ | | |
| 202.01.02 | <u>Trench excavation 1m – 2m wide</u> | | | | |
| 202.01.02.01 | Up to 1,0m deep | 900 | m³ | | |
| 202.01.02.02 | More than 1,0m and up to 1,5m deep | 900 | m³ | | |
| 202.01.02.03 | More than 1,5m and up to 2,0m deep | 900 | m³ | | |
| 202.01.02.04 | More than 2,0m and up to 2,5 m deep | 900 | m³ | | |
| 202.01.02.05 | More than 2,5m and up to 3,0 m deep | 120 | m³ | | |
| 202.01.02.06 | More than 3,0m deep | 120 | m³ | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| 202.01.01 | <u>Trench excavation 2m – 3m wide</u> | | | | |
| 202.01.03.01 | Up to 1,0m deep | 900 | m³ | | |
| 202.01.03.02 | More than 1,0m and up to 1,5m deep | 900 | m³ | | |
| 202.01.03.03 | More than 1,5m and up to 2,0m deep | 900 | m³ | | |
| 202.01.03.04 | More than 2,0m and up to 2,5 m deep | 900 | m³ | | |
| 202.01.03.05 | More than 2,5m and up to 3,0 m deep | 900 | m³ | | |
| 202.01.03.06 | More than 3,0m deep | 120 | m³ | | |
| 202.02 | Extra in addition to Item 202.01 for excavation in: | | | | |
| 202.02.01 | Intermediate material | 120 | m³ | | |
| 202.02.02 | Hard material | 80 | m³ | | |
| 202.03 | Excavation outside the normal trench profile | 90 | m³ | | |
| 202.04 | (Ll) Hand excavation (Extra over Item 202.01) | 600 | m³ | | |
| 202.06 | The backfilling of trenches with material obtained from excavations | 600 | m³ | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| 202.08 | Backfilling of additional excavations in trench floor using: | | | | |
| 202.08.01 | Class 15/19 concrete | 800 | m³ | | |
| 202.08.02 | Class 15/38 concrete | 800 | m³ | | |
| B202.10 | Removal of spoil material (within the free-haul distance of 3 km) | | | | |
| B202.10.01 | To positions on site on written instruction of the engineer | 600 | m³ | | |
| B202.10.02 | To the Municipal or other dumping area to be Provided by the Engineer | 600 | m³ | | |
| 202.11 | Timbering and shoring left in excavation | 600 | m² | | |
| 202.12 | Extra over item 202.06 for additional compaction of backfill to 93% of modified AASHTO density | 90 | m³ | | |
| 202.13 | Backfilling of trenches with soil crete | 250 | m³ | | |
| B202.15 | Repair of roads (4% cement stab) | 250 | m³ | | |
| B202.16 | Cutting of road surfacing and paved side roads with diamond cutting wheel | 900 | m | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| B202.17.01 | Cleaning of silted up stormwater pipes (after cleaning, the pipe must be completely clean) | | | | |
| B202.17.01.01 | 300mm | 800 | m | | |
| B202.17.01.02 | 450mm | 800 | m | | |
| B202.17.01.03 | 525mm | 800 | m | | |
| B202.17.01.04 | 600mm | 600 | m | | |
| B202.17.01.05 | 675mm | 600 | m | | |
| B202.17.01.06 | 750mm | 600 | m | | |
| B202.17.01.07 | 825mm | 600 | m | | |
| B202.17.01.08 | 900mm | 600 | m | | |
| B202.17.01.09 | 1 050mm | 600 | m | | |
| B202.17.01.10 | 1 200mm | 600 | m | | |
| B202.17.01.11 | 1 350mm | 600 | m | | |
| B202.17.01.12 | 1 500mm | 600 | m | | |
| B202.17.01.13 | 1 650mm | 600 | m | | |
| B202.17.02 | Cleaning of silted up stormwater culverts (after cleaning the culverts must be completely clean) | | | | |
| B202.17.02.01 | All culverts up to 0,5m high | 300 | m | | |
| B202.17.02.02 | All culverts up to 1,0m high | 300 | m | | |
| B202.17.02.03 | All culverts up to 1,5m high | 300 | m | | |
| B202.18 | Pumping of water out of trenches | | | | |
| B202.18.01 | Pumping of water with (100mm Inlet dia pipe) sludge pump | 700 | hr | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| | SECTION 203: MASS EARTHWORKS | | | | |
| 203.01 | Excavation and borrow to fill | | | | |
| 203.01.01 | Compaction to 90% of modified AASHTO density | 150 | m³ | | |
| 203.01.02 | Rock-fill processing and compaction | 70 | m³ | | |
| 203.03 | Excavation and the side finishing of excavations, as well as the disposal of material to the dumping site | | | | |
| 203.03.01 | Soft material | 3000 | m³ | | |
| 203.03.02 | Intermediate material | 600 | m³ | | |
| 203.03.03 | Hard material | 400 | m³ | | |
| 203.03.04 | Bolder material class A | 100 | m³ | | |
| 203.03.05 | Bolder material class B | 100 | m³ | | |
| B203.16 | (LI) Hand excavation | 150 | m³ | | |
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| SERIES 5 | DRAINAGE AND EROSION PROTECTION | | | | |
| Section 501 | Subsurface Drains and Drainage Blankets | | | | |
| 501.01 | Crushed stone | | | | |
| 501.01.01 | Graded crushed stone | 80 | m³ | | |
| 501.01.02 | Single-sized crushed stone: | | | | |
| 501.01.02.01 | 26.5mm nominal aggregate size | 80 | m³ | | |
| 501.01.02.02 | 19mm nominal aggregate size | 80 | m³ | | |
| 501.01.02.03 | 13.2mm nominal aggregate size | 80 | m³ | | |
| 501.01.02.04 | 9.5mm nominal aggregate size | 80 | m³ | | |
| 501.03 | Placing of filter sand | 80 | m³ | | |
| 501.04 | Geotextiles | | | | |
| 501.04.01 | Bidim grade A1 (1.3mm thick) | 150 | m² | | |
| 501.04.02 | Bidim grade A2 (1.6mm thick) | 150 | m² | | |
| 501.04.03 | Bidim grade A3 (1.8mm thick) | 150 | m² | | |
| 501.04.04 | Bidim grade A4 (2.1mm tick) | 150 | m² | | |
| 501.05 | Pipes in subsurface drains | | | | |
| 501.05.01.01 | Drainex DN75 (or similar approved) | 300 | m | | |
| 501.05.01.02 | Drainex DN110 (or similar approved) | 300 | m | | |
| 501.05.01.03 | Drainex DN160 (or similar approved) | 300 | m | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| 501.05.02 | Drainex DN75 fittings (or similar approved) | | | | |
| 501.05.02.01 | 22½° Long radius bend | 30 | no | | |
| 501.05.02.02 | 45° Long radius bend | 30 | no | | |
| 501.05.02.03 | 90° Long radius bend | 30 | no | | |
| 501.05.02.04 | 22½° Segmented bend | 30 | no | | |
| 501.05.02.05 | 45° Segmented bend | 30 | no | | |
| 501.05.02.06 | 90° Segmented bend | 30 | no | | |
| 501.05.02.07 | T-junction | 30 | no | | |
| 501.05.02.08 | Cross junction | 30 | no | | |
| 501.05.02.09 | DN110/75 offset reducer | 30 | no | | |
| 501.05.02.10 | 22½° Y-junction | 30 | no | | |
| 501.05.02.11 | 45° Y-junction | 30 | no | | |
| 501.05.02.12 | 22½° Double Y-junction | 30 | no | | |
| 501.05.02.13 | 45° Double Y-junction | 30 | no | | |
| 501.05.02.14 | End cap | 30 | no | | |
| 501.05.03 | Drainex DN110 fittings (or similar approved) | | | | |
| 501.05.03.01 | 22½° Long radius bend | 30 | no | | |
| 501.05.03.02 | 45° Long radius bend | 30 | no | | |
| 501.05.03.03 | 90° Long radius bend | 30 | no | | |
| 501.05.03.04 | 22½° Segmented bend | 30 | no | | |
| 501.05.03.05 | 45° Segmented bend | 30 | no | | |
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| 501.05.03.06 | 90° Segmented bend | 30 | no | | |
| 501.05.03.07 | T-junction | 30 | no | | |
| 501.05.03.08 | Cross junction | 30 | no | | |
| 501.05.03.09 | DN160/110 offset reducer | 30 | no | | |
| 501.05.03.10 | 22½° Y-junction | 30 | no | | |
| 501.05.03.11 | 45° Y-junction | 30 | no | | |
| 501.05.03.12 | 22½° Double Y-junction | 30 | no | | |
| 501.05.03.13 | 45° Double Y-junction | 30 | no | | |
| 501.05.03.14 | End cap | 30 | no | | |
| 501.05.04 | Drainex DN160 fittings (or similar approved) | | | | |
| 501.05.04.01 | 22½° Long radius bend | 30 | no | | |
| 501.05.04.02 | 45° Long radius bend | 30 | no | | |
| 501.05.04.03 | 90° Long radius bend | 30 | no | | |
| 501.05.04.04 | 22½° Segmented bend | 30 | no | | |
| 501.05.04.05 | 45° Segmented bend | 30 | no | | |
| 501.05.04.06 | 90° Segmented bend | 30 | no | | |
| 501.05.04.07 | T-junction | 30 | no | | |
| 501.05.04.08 | Cross junction | 30 | no | | |
| 501.05.04.09 | DN160/110 offset reducer | 30 | no | | |
| 501.05.04.10 | 22½° Y-junction | 30 | no | | |
| 501.05.04.11 | 45° Y-junction | 30 | no | | |
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| 501.05.04.12 | 22½° Double Y-junction | 30 | no | | |
| 501.05.04.13 | 45° Double Y-junction | 30 | no | | |
| 501.05.04.14 | End cap | 30 | no | | |
| 501.06 | Polyethylene sheeting 1.15mm thick or an equivalent approved material, for lining subsurface drains | 300 | m² | | |
| 501.08 | Concrete caps for subsurface drain pipes | 300 | no | | |
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| | SECTION 502: PREFABRICATED CULVERTS AND STORMWATER SEWERS | | | | |
| 502,01 | Back filling with selected excavated material compacted to: | | | | |
| 502.01.01 | 90% of modified AASHTO density | 150 | m³ | | |
| 502.01.02 | 93% of modified AASHTO density | 150 | m³ | | |
| 502.01.03 | 95% of modified AASHTO density | 150 | m³ | | |
| 502,10 | Cast-in-situ concrete | | | | |
| 502.10.01 | In class A bedding, blinding layers and encasing of pipes, including any form- work required | | | | |
| 502.10.01.01 | Concrete (15 MPa) backfill to rectangular culvert and trench bottom | 150 | m³ | | |
| 502.10.01.02 | 50mm blinding layer with 15 Mpa concrete | 90 | m² | | |
| 502.10.02 | In invert slabs for portal or rectangular culverts, including formwork to provide class F1 surface finish and class U2 surface finish for unformed surfaces | | | | |
| 502.10.02.01 | 25 MPa in foundation and floor | 300 | m³ | | |
| 502.10.02.02 | 30 MPa in decks to chambers and manhole surrounds, etc. | 60 | m³ | | |
| 502.10.02.03 | 25 MPa in walls, headwalls, parapets, etc. | 60 | m³ | | |
| 502.10.02.02.04 | 25 MPa in benching | 20 | m³ | | |
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| 502.10.03 | In inlet and outlet structures, catchpits, manholes and junction boxes excluding form-work, but including class U2 surface finish | | | | |
| 502.10.03.01 | Concrete (20 MPa) | 300 | m³ | | |
| 502.10.03.01 | 50mm blinding layer with 15 Mpa concrete | 90 | m² | | |
| 502,11 | Class 10/38 concrete backfill for culverts | 150 | m³ | | |
| 502,13 | Welded – steel fabric | | | | |
| 502.13.01 | Ref 395 high tensile welded - steel | 300 | kg | | |
| 502.13.02 | Ref 655 high tensile welded - steel | 300 | kg | | |
| 502.13.03 | Ref 888 high tensile welded - steel | 300 | kg | | |
| 502,14 | Reinforcement | | | | |
| 502.14.01 | Mild steel | | | | |
| 502.14.01.01 | Bars with 8mm diameter | 1 | t | | |
| 502.14.01.02 | Bars with 10mm diameter | 1 | t | | |
| 502.14.01.03 | Bars with 12mm diameter | 1 | t | | |
| 502.14.02 | High yield stress steel | | | | |
| 502.14.02.01 | 10mm dia | 1 | t | | |
| 502.14.02.02 | 12mm dia | 1 | t | | |
| 502.14.02.03 | 16mm dia | 1 | t | | |
| 502.14.02.04 | 20mm dia | 1 | t | | |
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| TOTAL BROUGHT FORWARD | | | | | |
| 502.16 | Manhole, catch pits precast inlets and outlet structures and junction boxes complete | | | | |
| 502.16.02 | Catchpits | | | | |
| 502.16.02.01 | 3m long | 100 | No | | |
| 502.16.02.02 | 4m long | 100 | No | | |
| 502.16.02.03 | 5m long | 100 | No | | |
| 502.16.04 | Transitions before and after catchpits | | | | |
| 502.16.04.01 | 1m long | 100 | No | | |
| 502.16.04.02 | 2m long | 100 | No | | |
| 502.16.04.03 | 3m long | 100 | No | | |
| 502.16.04.04 | 4m long | 100 | No | | |
| 502.16.04.05 | 5m long | 100 | No | | |
| 502.16.04.06 | 6m long | 100 | No | | |
| 502.16.05 | Junction Boxes | | | | |
| 502.16.05.01 | 450mm – 600mm pipe | | | | |
| 502.16.05.01.01 | Type A and D | 100 | No | | |
| 502.16.05.01.02 | Type B | 100 | No | | |
| 502.16.05.01.03 | Type C | 100 | No | | |
| 502.16.05.02 | 675mm – 1 350mm pipe | | | | |
| 502.16.05.02.01 | Type A and D | 100 | No | | |
| 502.16.05.02.02 | Type B | 100 | No | | |
| 502.16.05.02.03 | Type C | 100 | No | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.16.07 | Placing only of concrete slabs (Slabs will be paid under item B001.07.01) | 150 | No | | |
| 502.17 | Brickwork | | | | |
| 502.17.01 | (LI) 115mm thick | 80 | m² | | |
| 502.17.02 | (LI) 230mm thick | 80 | m² | | |
| 502.17.03 | (LI) 345mm thick | 80 | m² | | |
| 502.18 | (LI) Plaster | 300 | m² | | |
| 502.19 | Benching | 80 | m² | | |
| 502.20 | Accessories | | | | |
| 502.20.01 | Manhole covers including frames | | | | |
| 502.20.01.01 | Hinged ductile iron manhole cover and frame | 80 | no | | |
| 502.20.03 | Step Irons | 80 | no | | |
| 502.21 | Soilcrete | 150 | m³ | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.24 | Laying ONLY of concrete pipes, interlocking joint pipes | | | | |
| B502.24.01 | 450mm | 300 | m | | |
| B502.24.02 | 525mm | 300 | m | | |
| B502.24.03 | 600mm | 300 | m | | |
| B502.24.04 | 675mm | 150 | m | | |
| B502.24.05 | 750mm | 150 | m | | |
| B502.24.06 | 825mm | 150 | m | | |
| B502.24.07 | 900mm | 150 | m | | |
| B502.24.08 | 1 050mm | 80 | m | | |
| B502.24.09 | 1 200mm | 80 | m | | |
| B502.24.10 | 1 350mm | 80 | m | | |
| B502.24.11 | 1 500mm | 80 | m | | |
| B502.24.12 | 1 650mm | 80 | m | | |
| B502.25 | Laying ONLY of concrete pipes. Spigot and socket pipes | | | | |
| B502.25.01 | 450mm | 300 | m | | |
| B502.25.02 | 525mm | 300 | m | | |
| B502.25.03 | 600mm | 300 | m | | |
| B502.25.04 | 675mm | 150 | m | | |
| B502.25.05 | 750mm | 150 | m | | |
| B502.25.06 | 825mm | 150 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.25.07 | 900mm | 150 | m | | |
| B502.25.08 | 1 050mm | 80 | m | | |
| B502.25.09 | 1 200mm | 80 | m | | |
| B502.25.10 | 1 350mm | 80 | m | | |
| B502.25.11 | 1 500mm | 80 | m | | |
| B502.25.12 | 1 650mm | 80 | m | | |
| B502.26 | Laying <u>ONLY</u> of Ribbed HDPE pipes. | | | | |
| B502.26.01 | 400mm | 300 | m | | |
| B502.26.02 | 500mm | 300 | m | | |
| B502.26.03 | 600mm | 300 | m | | |
| B502.26.04 | 700mm | 150 | m | | |
| B502.26.05 | 800mm | 150 | m | | |
| B502.26.06 | 900mm | 150 | m | | |
| B502.26.07 | 1000mm | 150 | m | | |
| B502.26.08 | 1100mm | 80 | m | | |
| B502.26.09 | 1200mm | 80 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|---|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.27 | Laying ONLY rectangular portal culverts Complete without precast invert slab (Culverts will be paid under item B001.07.01) Span mm Height mm | | | | |
| B502.27.01 | 450 300 | 30 | m | | |
| B502.27.02 | 450 375 | 30 | m | | |
| B502.27.03 | 450 450 | 30 | m | | |
| B502.27.04 | 600 300 | 30 | m | | |
| B502.27.05 | 600 450 | 30 | m | | |
| B502.27.06 | 600 600 | 30 | m | | |
| B502.27.07 | 750 300 | 30 | m | | |
| B502.27.08 | 750 450 | 30 | m | | |
| B502.27.09 | 750 600 | 30 | m | | |
| B502.27.10 | 750 750 | 30 | m | | |
| B502.27.11 | 900 300 | 30 | m | | |
| B502.27.12 | 900 450 | 30 | m | | |
| B502.27.13 | 900 600 | 30 | m | | |
| B502.27.14 | 900 750 | 30 | m | | |
| B502.27.15 | 900 900 | 30 | m | | |
| B502.27.16 | 1 200 300 | 30 | m | | |
| B502.27.17 | 1 200 450 | 30 | m | | |
| B502.27.18 | 1 200 600 | 30 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|-----------------------|-------------|-------|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | | |
| B502.27.19 | 1 200 | 900 | 30 | m | | |
| B502.27.20 | 1 200 | 1 200 | 30 | m | | |
| B502.27.21 | 1 500 | 300 | 30 | m | | |
| B502.27.22 | 1 500 | 450 | 30 | m | | |
| B502.27.23 | 1 500 | 600 | 30 | m | | |
| B502.27.24 | 1 500 | 900 | 30 | m | | |
| B502.27.25 | 1 500 | 1 200 | 30 | m | | |
| B502.27.26 | 1 500 | 1 500 | 30 | m | | |
| B502.27.27 | 1 800 | 600 | 30 | m | | |
| B502.27.28 | 1 800 | 900 | 30 | m | | |
| B502.27.29 | 1 800 | 1 200 | 30 | m | | |
| B502.27.30 | 1 800 | 1 500 | 30 | m | | |
| B502.27.31 | 1 800 | 1 800 | 30 | m | | |
| B502.27.32 | 2 100 | 600 | 30 | m | | |
| B502.27.33 | 2 100 | 900 | 30 | m | | |
| B502.27.34 | 2 100 | 1 200 | 30 | m | | |
| B502.27.35 | 2 100 | 1 500 | 30 | m | | |
| B502.27.36 | 2 100 | 1 800 | 30 | m | | |
| B502.27.37 | 2 100 | 2 100 | 30 | m | | |
| B502.27.38 | 2 400 | 600 | 30 | m | | |
| B502.27.39 | 2 400 | 900 | 30 | m | | |
| B502.27.40 | 2 400 | 1 200 | 30 | m | | |
| TOTAL CARRIED FORWARD | | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|-----------------------|-------------|-------|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | | |
| B502.27.41 | 2 400 | 1 500 | 30 | m | | |
| B502.27.42 | 2 400 | 1 800 | 30 | m | | |
| B502.27.43 | 2 400 | 2 400 | 30 | m | | |
| B502.27.44 | 3 000 | 600 | 30 | m | | |
| B502.27.45 | 3 000 | 900 | 30 | m | | |
| B502.27.46 | 3 000 | 1 200 | 30 | m | | |
| B502.27.47 | 3 000 | 1 500 | 30 | m | | |
| B502.27.48 | 3 000 | 1 800 | 30 | m | | |
| B502.27.49 | 3 000 | 2 400 | 30 | m | | |
| B502.27.50 | 3 000 | 3 000 | 30 | m | | |
| B502.27.51 | 3 600 | 600 | 30 | m | | |
| B502.27.52 | 3 600 | 900 | 30 | m | | |
| B502.27.53 | 3 600 | 1 200 | 30 | m | | |
| B502.27.54 | 3 600 | 1 500 | 30 | m | | |
| B502.27.55 | 3 600 | 1 800 | 30 | m | | |
| B502.27.56 | 3 600 | 2 400 | 30 | m | | |
| B502.27.57 | 3 600 | 3 000 | 30 | m | | |
| TOTAL CARRIED FORWARD | | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|---|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.28 | Supply ONLY of concrete pipes. Interlocking joint pipes (50d) | | | | |
| B502.28.01 | 450mm | 80 | m | | |
| B502.28.02 | 525mm | 80 | m | | |
| B502.28.03 | 600mm | 80 | m | | |
| B502.28.04 | 675mm | 80 | m | | |
| B502.28.05 | 750mm | 80 | m | | |
| B502.28.06 | 825mm | 80 | m | | |
| B502.28.07 | 900mm | 80 | m | | |
| B502.28.08 | 1 050mm | 90 | m | | |
| B502.28.09 | 1 200mm | 90 | m | | |
| B502.28.10 | 1 350mm | 90 | m | | |
| B502.28.11 | 1 500mm | 90 | m | | |
| B502.28.12 | 1 650mm | 90 | m | | |
| B502.29 | Supply ONLY of concrete pipes. Spigot and socket pipes (50d) | | | | |
| B502.29.01 | 450mm | 150 | m | | |
| B502.29.02 | 525mm | 150 | m | | |
| B502.29.03 | 600mm | 150 | m | | |
| B502.29.04 | 675mm | 150 | m | | |
| B502.29.05 | 750mm | 150 | m | | |
| B502.29.06 | 825mm | 150 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|-----------------------|--|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| B502.29.07 | 900mm | 150 | m | | |
| B502.29.08 | 1 050mm | 90 | m | | |
| B502.29.09 | 1 200mm | 90 | m | | |
| B502.29.10 | 1 350mm | 90 | m | | |
| B502.29.11 | 1 500mm | 90 | m | | |
| B502.29.12 | 1 650mm | 90 | m | | |
| B502.30 | Supply <u>ONLY</u> of 4kN Ribbed HDPE pipes. | | | | |
| B502.30.01 | 400mm | 150 | m | | |
| B502.30.02 | 500mm | 150 | m | | |
| B502.30.03 | 600mm | 150 | m | | |
| B502.30.04 | 700mm | 150 | m | | |
| B502.30.05 | 800mm | 150 | m | | |
| B502.30.06 | 900mm | 150 | m | | |
| B502.30.07 | 1000mm | 150 | m | | |
| B502.30.08 | 1100mm | 150 | m | | |
| B502.30.09 | 1200mm | 150 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|---|------|----------------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| | SECTION 503: Kerbing and Channelling | | | | |
| 503.01 | Concrete kerbing Class 20/19 concrete (See drawing STD007 - Sheet 1) | | | | |
| 503.01.01 | Edge beam | 60 | m | | |
| 503.01.02 | 300mm Sloping kerb | 30 | m | | |
| 502.01.03 | 400mm Sloping kerb | 30 | m | | |
| 503.01.04 | 500mm Sloping kerb | 30 | m | | |
| 503.02 | Concrete kerbing-channelling combination (See drawing STD007 - Sheet 1) | | | | |
| 503.02.01 | Semi-vertical kerb (Fig. 7) with concrete channel | 60 | m | | |
| 503.02.02 | Barrier kerb (Fig. 3) with concrete channel | 60 | m | | |
| | SECTION 505: EROSION PROTECTION | | | | |
| 505,01 | Foundation trench excavation and backfilling | | | | |
| 505.01.02 | In all other classes of material | 600 | m ³ | | |
| 505,02 | Surface preparation for the bedding of gabions | 3000 | m ² | | |
| 505.03.01 | Gabions | | | | |
| 505.03.01.01 | Gabions boxes (1m x 0.5m) | 120 | m ³ | | |
| 505.03.01.02 | Gabions boxes (1m x 1m) | 120 | m ³ | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|---------------------------------|---|-----|----------------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| 505.03.02.01 | Gabion mattresses 200mm depth | 80 | m ³ | | |
| 505.03.02.02 | Gabion mattresses 300mm depth | 80 | m ³ | | |
| 505,05 | Geotextile (kaytech U24 or similar) | 60 | m ² | | |
| 505,06 | Stone Pitching | | | | |
| 505.06.01 | Plain pitching | | | | |
| 505.06.01,01 | Method 1 (200mm thickness) | 90 | m ² | | |
| 505.06.02 | Grouted pitching (250mm thickness) | 90 | m ² | | |
| 505.09.02 | Interlocking precast concrete block pitching: Armourflex 180 or similar (See Drawing STD 012) | 250 | m ² | | |
| 505,10 | Concrete in edge beams and foundation trenches (Class 25/13 concrete) | 15 | m ³ | | |
| TOTAL CARRIED TO SUMMARY | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------|-----------------|------------------|
| SERIES 6 | ROADS AND PARKING AREAS | | | | |
| Section 608 | ROAD AND SURFACING REHABILITATION AND OVERLAY CONSTRUCTION | | | | |
| B608.01 | Replacing of failed layers | | | | |
| B608.01.03 | Backfilling of excavations with: | | | | |
| B608.01.03.03.01 | Placing foundation layers with continuously graded asphalt base (4.5%) (Less than 10t per day) | 30 | t | | |
| B608.01.03.03.02 | Placing foundation layers with continuously graded asphalt base (4.5%) (Greater than 10t per day) | 20 | t | | |
| B608.01.03.04.01 | Replacing surfacing layers with continuously medium graded asphalt (5%) (Less than 10t per day) | 30 | t | | |
| B608.01.03.04.02 | Replacing surfacing layers with continuously medium graded asphalt (5%) (Greater than 10t per day) | 20 | t | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| 606.05 | Tack coat of 30% stable grade emulsion | 100 | l | | |
| 609.06 | Construction of pedestrian ramps for the disabled (See drawing STD009) | 10 | no | | |
| Section 610 | Concrete Pavements | | | | |
| 610.01 | Concrete pavement | | | | |
| 610.01.01 | Class 30/19, 150mm - 180mm thick in bus bays and roads | 50 | m³ | | |
| 610.01.02 | Class 25/19, 100mm - 125mm thick in walkways and cycle tracks (including Class U2 concrete finish) | 50 | m³ | | |
| 610.02 | Texturing and curing of concrete pavement | | | | |
| 610.02.01 | Wire-brush texturing | 100 | m² | | |
| 610.02.02 | Curing | 100 | m² | | |
| 610.04 | Joints | | | | |
| 610.04.01 | Expansion joints complete (excluding dowels) | 20 | m | | |
| 610.04.03 | Transverse contraction joints | | | | |
| 610.04.03.01 | Sawn contraction joints (sealed) completed in a single operation (width as shown on drawing STD010) | 20 | m | | |
| 610.04.03.02 | Sawn contraction joints (sealed) completed in two separate operations (width as shown on drawing STD010) | 20 | m | | |
| 610.04.03.03 | Sawn contraction joints (unsealed) | 20 | m | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|------------------------------|--|-----|------------------------|-----------------|------------------|
| SERIES 8 | SPECIFIC WORKS | | | | |
| Section 6600 | NO-FINES CONCRETE, JOINTS, BEARINGS AND PARAPETS | | | | |
| 1/65.01 | Fixed charges for bridges (R50 000 Max) (Charges per bridge / per event) | 9 | Per bridge / Per event | | |
| 1/66.01 | Removal of debris from expansion joints | 56 | m | | |
| 1/66.02 | Expansion joints (Incl. removal of existing) | | | | |
| | (a) Plug Type Joint (<i>Incl. non ferrous cover plates</i>) | | | | |
| | (i) Asphaltic plug joint 500 x 100 mm | 56 | m | | |
| | (ii) Asphaltic plug joint 600 x 100 mm | 56 | m | | |
| | (iv) Steel claw joints (<i>Incl. non ferrous cover plates</i>) | | | | |
| | (i) Single element - accommodating up to 80mm movement | 14 | m | | |
| | (ii) Multi element - accommodating up to 160mm movement | 14 | m | | |
| 1/66.03 | Sealing of joints with: | | | | |
| | (a) Silicone sealant (<i>approved for purpose</i>) in NJ balustrades | | | | |
| | (i) Up to 25mm wide | 30 | m | | |
| | (ii) 25 - 40mm wide | 30 | m | | |
| | (iii) 40 - 60mm wide | 30 | m | | |
| 1/66.04 | Numbers for structures | | | | |
| | (c) Numbers Plates (<i>Non Ferrous & UV Resistant</i>) | | | | |
| | (i) Endblocks | 8 | No | | |
| C12100 | ACCESS FOR BRIDGE REHABILITATION | | | | |
| 1/C121.01 | Temporary access structures and work platforms | | | | |
| 1/C121.01.01 | Access and platform from 0 m up to 5,0m height | | | | |
| | (i) Design, supply and erect at the following structural elements and height ranges inclusive of dismantling and moving to the next structural element | 2 | No | | |
| | (ii) Dismantle and remove from location or structure | 2 | No | | |
| 1/C121.01.02 | Access and platform from 5,0 m up to 10,0m height | | | | |
| | (i) Design, supply and erect at the following structural elements and height ranges inclusive of dismantling and moving to the next structural element | 2 | No | | |
| | (ii) Dismantle and remove from location or structure | 2 | No | | |
| 1/C121.03 | Access at end of maintenance period for inspection | 2 | No | | |
| TOTAL CARRIED FORWARD | | | | | |

BILL OF QUANTITIES - CONTINUED

| ITEM | DESCRIPTION | QTY | UNIT | RATE (Exl. VAT) | AMOUNT(Exl.VAT) |
|---------------------------------|--|-----|-------|-----------------|------------------|
| TOTAL BROUGHT FORWARD | | | | | |
| C12300 | SURFACE AND STRUCTURAL REPAIR OF CONCRETE | | | | |
| 1/C123.01 | Cementitious Repair mortar | | | | |
| | (i) Concrete spalling - Piers | 100 | litre | | |
| | (ii) Concrete spalling - Balustrades | 100 | litre | | |
| | (iii) Concrete spalling - Bridge deck | 100 | litre | | |
| 1/C123.04 | Curing of repair surfaces | | | | |
| | (a) By coating the surface with a water based low viscosity clear wax emulsion curing compound | 150 | m² | | |
| C12400 | GROUTING AND CRACK INJECTION | | | | |
| 1/C124.01 | Preparation of contact surfaces for grouting and crack filling | 20 | No | | |
| 1/C124.05 | Crack injection with epoxy resin to: | | | | |
| | (i) Balustrades | 50 | m | | |
| | (ii) Wing walls | 50 | m | | |
| | (iii) Head Walls | 50 | m | | |
| | (iv) Piers | 50 | m | | |
| C12600 | PROTECTIVE COATINGS AND TREATMENTS FOR | | | | |
| 1/C126.01 | Cleaning and preparation of concrete surfaces (Parapets, endblocks, piers and headwalls) | | | | |
| | (i) With high pressure water jetting | 400 | m² | | |
| 1/C126.02 | Application of protective coatings | | | | |
| | (i) Balustrades | 200 | m² | | |
| | (ii) Head walls | 200 | m² | | |
| | (iii) Wing walls | 100 | m² | | |
| | (iv) Piers & Columns | 200 | m² | | |
| TOTAL CARRIED TO SUMMARY | | | | | |

SUMMARY OF THE BILL OF QUANTITIES

| SECTION | DESCRIPTION | AMOUNT (Exl.VAT) |
|--|----------------------------------|------------------|
| SERIES 0 | GENERAL | |
| SERIES 1 | ANCILLARY WORK | |
| SERIES 2 | EARTHWORKS | |
| SERIES 5 | DRAINAGE AND EROSION PROTECTION | |
| SERIES 6 | ROADS AND PARKING AREAS | |
| SERIES 8 | SPECIFIC WORKS | |
| | SUB TOTAL AMOUNT (Excluding VAT) | |
| | VAT | |
| TOTAL SCHEDULE OF PRICES (Including VAT) | | |