

CONTRACT 494/15 - GENERAL BUILDING SCHEDULE OF RATES

EAC
FEBRUARY 2016
Amount
Excluding VAT

| Item No. | Description | Unit | Qty | Rate |
|----------|--|------|-----|------|
| | <u>SCHEDULE No. 17</u> | | | |
| | <u>EXTERNAL WORKS</u> | | | |
| | NOTE : Tenderers are advised to study the "Model Preambles for Trades" before pricing this schedule. | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Descriptions</u> | | | |
| | For full descriptions and supplementary preambles applicable to this section, see also previous bills | | | |
| | <u>Nature of ground</u> | | | |
| | A soil investigation will be carried out on site by the engineer, and the report will be annexed to these bills of quantities. Descriptions of all excavations shall be deemed to include all ground conditions classified as "earth" described in the annexed report and where conditions of a more difficult character are indicated these are separately measured | | | |
| | <u>Carting away of excavated material</u> | | | |
| | Description of carting away of excavated material shall deemed to include loading of excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site. | | | |
| 17.1 | <u>Concrete pipes</u> | | | |
| | Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings | | | |
| | <u>uPVC pipes and fittings</u> | | | |
| | Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings | | | |
| | Soil, waste and vent pipes and fittings shall be solvent weld jointed | | | |
| | <u>uPVC pressure pipes and fittings</u> | | | |
| | Pipes for water supply shall be of the class stated | | | |
| | Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose socket fittings | | | |
| | Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bens shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints with solvent welded uPVC loose socket fittings | | | |
| | <u>Exposed concrete surfaces</u> | | | |

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Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

The selection of the imported "borrow pit" pipe bedding material for class B, C or flexible pipe beddings shall be done by the contractor, and all the tendered rates for the imported material shall be deemed to include for the necessary selection of material.

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Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200 L : Medium-pressure pipelines
LD : Sewers
LE : Stormwater drainage

Pipe trenches, etc. shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200

LB : Bedding (Pipes)

Unless otherwise described, bedding of rigid pipes shall be class B bedding

Unless otherwise described, bedding of rigid pipes shall be class B bedding

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd or equally approved

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| | Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described | | | | |
| | Couplings and fittings to pipes shall be taped in strict accordance with the manufacturers instructions, including all mastic tape "Layflat" sheeting, securing of same, etc. | | | | |
| | Unless otherwise described, bedding of rigid pipes shall be class B bedding | | | | |
| | <u>ALTERATIONS</u> | | | | |
| | <u>REMOVAL OF EXISTING WORK</u> | | | | |
| 17.1 | <u>Taking out and removing road kerbs and surfacing</u> | | | | |
| 17.1.1 | Break up and cart away tarmac paving and crusher run base 175mm thick bedding including concrete kerbs | m ² | 1 | 27.82 | 27.82 |
| | | | | - | |
| 17.1.2 | Precast concrete vertical kerbs with 150 x 150mm cat in-situ concrete apron along sides of existing road including necessary excavation, backfilling and compaction | m | 1 | 9.28 | 9.28 |
| | | | | - | |
| 17.1.3 | Lift up concrete, clay, etc. paving blocks and set aside for re-use | m ² | 1 | 13.10 | 13.10 |
| | | | | - | |
| 17.1.4 | Lift up concrete, clay, etc paving blocks, set aside and relay including 20mm sand bedding | m ² | 1 | 51.04 | 51.04 |
| | | | | - | |
| 17.1.6 | Break down and cart away half brickwall 1.8m high with piers at 2m centres and cart away | m | 1 | 185.57 | 185.57 |
| | | | | - | |
| 17.1.7 | Break down and cart away one brickwall 1.8m high with piers at 3m centres and cart away | m | 1 | 340.23 | 340.23 |
| | | | | - | |
| 17.1.8 | Break down and cart away one and half brickwall 1.8m high with piers at 3m centres and cart away | m | 1 | 340.23 | 340.23 |
| | | | | - | |
| | <u>LANDSCAPING</u> | | | - | |
| | | | | - | |
| 17.2 | <u>Preambles</u> | | | - | |
| | | | | - | |
| 17.2.1 | The accuracy of bulk earthworks and landscaping will be in accordance with SABS 1200D and SABS 1200DM Degree II | | | - | |
| | | | | - | |
| | <u>Topsoil, compost, lime and fertilizer</u> | | | - | |
| | | | | - | |
| 17.3 | Excavate and preserve topsoil and deposit in stockpile | | | - | |
| | | | | - | |
| 17.3.1 | Topsoil obtained from prescribed stock piles on site spread and levelled over the site for grass areas including slightly wetting and rolling with light roller | m ³ | 1 | 86.60 | 86.60 |
| | | | | - | |

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| 17.3.2 | Topsoil obtained from prescribed stock piles on site spread and levelled over the site for grass areas including slightly wetting and rolling with light roller in plant beds, road islands, etc. | m ² | 1 | 68.05 | 68.05 |
| 17.4 | Topsoil supplied by the contractor spread and levelled over the site for grass areas | m ³ | 1 | 332.73 | 332.73 |
| 17.4.1 | Compost in plant boxes | m ³ | 1 | 445.73 | 445.73 |
| 17.5 | <u>TREES</u> | | | - | |
| 17.5.1 | Celtis africana (50l) | no | 1 | 982.62 | 982.62 |
| 17.5.2 | Tanalith treated eucalyptus fencing 1200mm high | m | 1 | 495.68 | 495.68 |
| 17.5.3 | Tanalith treated vertical lath (wood) handrails 1200mm high | m | 1 | 341.95 | 341.95 |
| | <u>GRASSING, GROUND COVERS, ETC.</u> | | | - | |
| | <u>"Kikuyu"</u> | | | - | |
| 17.6 | Roots in rows | m ² | 1 | 18.55 | 18.55 |
| 17.6.1 | Areas not exceeding 1000m ² | m ² | 1 | 22.01 | 22.01 |
| 17.6.2 | Areas exceeding 1000m ² | m ² | 1 | 20.96 | 20.96 |
| 17.6.2 | Hydroseeding (Hydraulic mulch seeding, hydro-mulching) | m ² | 1 | 45.86 | 45.86 |
| | <u>EARTHWORKS, ROADWORKS, ETC</u> | | | - | |
| 17.7 | <u>Site clearance</u> | | | - | |
| 17.7.1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. | m ² | 1 | 37.12 | 37.12 |
| | <u>Bulk excavation, filling, etc</u> | | | - | |
| 17.7.2 | On drywall partitions | m ² | 1 | 36.03 | 36.03 |
| 17.8 | <u>Open face excavation over sloping site</u> | | | - | |
| 17.8.1 | Open face excavation to reduce levels under roads, parking areas, etc. (spoil measured elsewhere) | m ³ | 1 | 53.50 | 53.50 |
| | <u>Extra over bulk excavation in earth for excavation in</u> | | | - | |
| 17.8.2 | Soft rock | m ³ | 1 | 163.77 | 163.77 |
| 17.8.3 | Hard rock | m ³ | 1 | 349.38 | 349.38 |
| 17.9 | <u>Extra over excavations for carting away</u> | | | - | |
| 17.9.1 | Surplus material from excavations on site to a dumping site to be located by the contractor (100% of excavated material) | m ³ | 1 | 36.03 | 36.03 |

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|---------|--|----------------|---|----------|----------|
| | <u>Keeping excavations free of water</u> | | | - | |
| | | | | - | |
| 17.9.2 | Keeping excavations free of water | Item | 1 | 1 364.75 | 1 364.75 |
| | | | | - | |
| | <u>Keeping excavations moist</u> | | | - | |
| | | | | - | |
| 17.9.4 | Extra over bulk or open face excavations to reduce levels under roads, parking areas, etc. (irrespective of depth) for keeping exposed or open excavation sides and bottoms | Item | 1 | 1 637.70 | 1 637.70 |
| | | | | - | |
| 17.10 | <u>Earthfilling supplied by the contractor under roads, parking areas, paving, etc. including all haul, selection, handling, etc (No designated borrow pit available)</u> | | | - | |
| | | | | - | |
| | Note: Road construction materials shall conform to the requirements of TRH 14: Guidelines for road construction materials | | | - | |
| | | | | - | |
| 17.10.1 | Approved G7 material for use in backfilling under walkways, paths and islands in 150mm thick layers compacted to 90% Modified AASHTO density | m ³ | 1 | 317.71 | 317.71 |
| | | | | - | |
| 17.10.2 | Selected G6 type material compacted in 150mm layers to 93% Modified AASHTO density | m ³ | 1 | 317.71 | 317.71 |
| | | | | - | |
| 17.10.3 | 150mm Sub-base layer G5 type material stabilized with 3% cement to obtain a C4 material compacted to 95% Modified AASHTO density | m ³ | 1 | 196.52 | 196.52 |
| | | | | - | |
| 17.11 | <u>Compaction of surfaces</u> | | | - | |
| | | | | - | |
| 17.11.1 | Compaction of ground surface under roads and parking areas including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density | m ² | 1 | 7.10 | 7.10 |
| | | | | - | |
| 17.12 | <u>Tests</u> | | | - | |
| | | | | - | |
| 17.12.1 | "Modified AASHTO Density" test to 93% | no | 1 | 567.74 | 567.74 |
| | | | | - | |
| 17.13 | <u>Soil poisoning (In confined areas)</u> | | | - | |
| | | | | - | |
| 17.13.1 | "Trimex-S" weedkiller mixed 30g/l water and applied at a rate of 1 litre/10m2 under road, parking and walkway paving | m ² | 1 | 49.13 | 49.13 |
| | | | | - | |
| | <u>Precast concrete block road surfacing</u> | | | - | |
| | | | | - | |
| | Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications | | | - | |
| | | | | - | |
| | Paving is to be laid in herringbone pattern on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere) | | | - | |
| | | | | - | |
| | Clean sand is to be swept into joints between roadstones | | | - | |
| | | | | - | |

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|----------|---|----------------|---|--------|--------|
| | <u>ASPHALT</u> | | | - | |
| | | | | - | |
| 17.14 | <u>Tar Surfacing (Parking and walkways)</u> | | | - | |
| 17.14.1 | Tar road resurfacing and making good | m ² | 1 | 188.34 | 188.34 |
| | | | | - | |
| 17.14.2 | Tar road resurfacing and making good in bad condition | m ² | 1 | 251.11 | 251.11 |
| | | | | - | |
| 17.14.3 | Saw-cutting asphalt(tar) | m | 1 | 28.93 | 28.93 |
| | | | | - | |
| | <u>PAVING</u> | | | - | |
| | | | | - | |
| | <u>Lifting up, setting aside and re-laying paving blocks including backfilling and 20mm bedding sand</u> | | | - | |
| | | | | - | |
| 17.14.4 | Precast concrete paving to falls | m ² | 1 | 79.00 | 79.00 |
| | | | | - | |
| 17.15 | <u>450 x 450 x50mm precast concrete paving slabs laid on 50mm thick river sand bead including preparation of ground or filling</u> | | | - | |
| | | | | - | |
| 17.15.1 | Paving of slabs laid with butt joints | m ² | 1 | 195.43 | 195.43 |
| | | | | - | |
| 17.15.2 | Paving of slabs laid with 10mm wide joints jointed with mortar and flush pointed | m ² | 1 | 203.07 | 203.07 |
| | | | | - | |
| 17.15.3 | Fair circular cutting | m | 1 | 4.37 | 4.37 |
| | | | | - | |
| | <u>450 x 450 x50mm precast concrete paving slabs with exposed aggregate finish laid on 50mm thick river sand bead including preparation of ground or filling</u> | | | - | |
| | | | | - | |
| 17.15.4 | Paving of slabs laid with butt joints | m ² | 1 | 222.73 | 222.73 |
| | | | | - | |
| 17.15.5 | Paving of slabs laid with 10mm wide joints jointed with mortar and flush pointed | m ² | 1 | 230.37 | 230.37 |
| | | | | - | |
| 17.15.6 | Fair circular cutting | m | 1 | 4.37 | 4.37 |
| | | | | - | |
| 17.16 | <u>60mm Standard grey "Concor Double Zig-Zag" interlocking roadstone paving or equally approved</u> | | | - | |
| | | | | - | |
| 17.16.1 | Paving to roads, parking areas, etc. to slight falls | m ² | 1 | 147.39 | 147.39 |
| | | | | - | |
| 17.16.2 | Circular cutting to pavers | m ² | 1 | 10.37 | 10.37 |
| | | | | - | |
| 17.16.3 | Joint of new paving or concrete edge beam to existing paving including all cutting, waste, filling of openings with concrete, etc. | m | 1 | 15.29 | 15.29 |
| | | | | - | |
| 17.16.a | <u>60mm Standard grey "Concor Double Zig-Zag" interlocking roadstone paving or equally approved (For low traffic-All inclusive trade) Including earthworks, 25mm thick river sand bed with sand swept into joints including preparation of ground or filling etc</u> | | | - | |
| | | | | - | |
| 17.16.1a | Paving to roads, parking areas, etc. to slight falls | m ² | 1 | 223.82 | 223.82 |

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| 17.17 | <u>85mm Standard grey "Concor Double Zig-Zag" interlocking roadstone paving or equally approved</u> | | | - | |
| | | | | - | |
| 17.17.1 | Paving to roads, parking areas, etc. to slight falls | m ² | 1 | 158.31 | 158.31 |
| 17.17.2 | Circular cutting to pavers | m ² | 1 | 9.28 | 9.28 |
| | | | | - | |
| 17.17.3 | Joint of new paving or concrete edge beam to existing paving including all cutting, waste, filling of openings with concrete, etc. | m | 1 | 15.29 | 15.29 |
| | | | | - | |
| 17.17.4 | <u>Paving of 220 x 108.5 x 50mm thick "Corobrik Tuscan Blend" paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u> | | | - | |
| | | | | - | |
| 17.17.4a | Paving in stretcher bond pattern | m ² | 1 | 185.61 | 185.61 |
| 17.17.4b | Paving in stretcher bond pattern to falls | m ² | 1 | 185.61 | 185.61 |
| 17.17.4c | Paving in herringboned bond pattern | m ² | 1 | 185.61 | 185.61 |
| 17.17.4d | Paving in herringboned bond pattern to falls | m ² | 1 | 185.61 | 185.61 |
| | | | | - | |
| 17.17.4e | 75mm wide brick-on-edge edging on 50mm thick mortar bed | m | 1 | 21.84 | 21.84 |
| | | | | - | |
| 17.17.4f | 110mm wide brick-on-end edging on 50mm thick mortar bed | m | 1 | 40.40 | 40.40 |
| | | | | - | |
| 17.17.4g | 220mm wide brick-on-flat header course edging on 50mm thick mortar bed | m | 1 | 37.12 | 37.12 |
| | | | | - | |
| 17.17.4h | 220mm wide brick-on-flat header course edging on 50mm thick mortar bed circular on plan | m | 1 | 38.21 | 38.21 |
| | | | | - | |
| 17.17.4i | 220mm wide brick-on-edge header course edging on 50mm thick mortar bed | m | 1 | 40.40 | 40.40 |
| | | | | - | |
| 17.17.4j | 220mm wide brick-on-edge header course edging on 50mm thick mortar bed circular on plan | m | 1 | 41.49 | 41.49 |
| | | | | - | |
| 17.17.4k | 170mm high brick-on-flat risers on 25mm thick mortar bed | m | 1 | 38.21 | 38.21 |
| | | | | - | |
| 17.17.4l | 350mm wide treads of brick-on-flat header course and brick-on-flat stretcher course on 25mm thick mortar bed | m | 1 | 46.95 | 46.95 |
| | | | | - | |
| 17.17.5 | <u>Paving of 200 x 100 x 50mm thick precast concrete "Concor Bondbrick" chamfered paving block with butt joints on 25mm thick river sand bed with sand swept into joints including preparation of ground or filling</u> | | | - | |
| | | | | - | |
| 17.17.5a | Paving in stretcher bond pattern | m ² | 1 | 160.49 | 160.49 |
| 17.17.5b | Paving in stretcher bond pattern to falls | m ² | 1 | 160.49 | 160.49 |
| | | | | - | |
| 17.17.5c | Paving in herringboned bond pattern | m ² | 1 | 160.49 | 160.49 |

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| 17.17.5d | Paving in herringboned bond pattern to falls | m ² | 1 | - 160.49 | 160.49 |
| 17.17.5e | 100mm wide block-on-end edging on 50mm thick mortar bed | m | 1 | - 40.40 | 40.40 |
| 17.17.5f | 200mm wide block-on-flat header course edging on 50mm thick mortar bed | m | 1 | - 37.12 | 37.12 |
| 17.17.5g | 200mm wide block-on-flat header course edging on 50mm thick mortar bed circular on plan | m | 1 | - 38.21 | 38.21 |
| 17.17.5h | 200mm wide block-on-edge header course edging on 50mm thick mortar bed | m | 1 | - 40.40 | 40.40 |
| 17.17.5i | 200mm wide block-on-edge header course edging on 50mm thick mortar bed circular on plan | m | 1 | - 41.49 | 41.49 |
| 17.17.5j | 170mm high brick-on-flat risers on 25mm thick mortar bed | m | 1 | - 38.21 | 38.21 |
| 17.17.5k | 330mm wide treads of brick-on-flat header course and brick-on-flat stretcher course on 25mm thick mortar bed | m | 1 | - 46.95 | 46.95 |
| 17.17.5l | Extra for contrasting colour blocks as marker lines | m | 1 | - 10.92 | 10.92 |
| 17.17.6 | <u>Double zig-zag (shape S-A) interlocking precast concrete blocks complying with SABS 1058 laid with butt joints on 25mm thick river sand bed with sand swept into joints including preparation of ground or filling</u> | | | - | |
| 17.17.6a | Paving of 80mm thick blocks including edge blocks | m ² | 1 | - 186.70 | 186.70 |
| 17.17.6b | Paving of 80mm thick blocks including edge blocks to falls and cross falls | m ² | 1 | - 186.70 | 186.70 |
| 17.17.6c | Paving of 60mm thick blocks including edge blocks | m ² | 1 | - 181.24 | 181.24 |
| 17.17.6d | Paving of 60mm thick blocks including edge blocks to falls and cross falls | m ² | 1 | - 181.24 | 181.24 |
| 17.17.6e | Extra for contrasting colour blocks as marker lines | m | 1 | - 10.92 | 10.92 |
| 17.17.6f | Fair circular cutting | m | 1 | - 4.37 | 4.37 |
| 17.18 | <u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u> | | | - | |
| 17.18.1 | Vertical kerb (SABS 927 fig 7) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing including excavation, backfilling, etc. | m | 1 | - 136.48 | 136.48 |

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| 17.18.2 | Vertical kerb (SABS 927 fig 7) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing, circular on plan to exceeding 4 000mm radius formed with short lengths of straight kerb including excavation, backfilling, etc. | m | 1 | 136.48 | 136.48 |
| | | | | - | |
| 17.18.3 | Vertical kerb (SABS 927 fig 7) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing, circular on plan to not exceeding 4 000mm radius formed with short lengths (maximum 300mm long) of straight kerb including excavation, backfilling, etc. | m | 1 | 136.48 | 136.48 |
| | | | | - | |
| 17.18.4 | Semi-mountable kerb (SABS 927 fig 7 laid flat on back) 180 x 280mm high in 1000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing including excavation, backfilling, etc. | m | 1 | 136.48 | 136.48 |
| | | | | - | |
| 17.18.5 | Semi-mountable kerb (SABS 927 fig 7 laid flat on back) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing, circular on plan to exceeding 4 000mm radius formed with short lengths of straight kerb including excavation, backfilling, etc. | m | 1 | 136.48 | 136.48 |
| | | | | - | |
| 17.18.6 | Semi-mountable kerb (SABS 927 fig 7 laid flat on back) 180 x 280mm high in 1 000mm sections with 13mm thick softboard expansion joints at 20 000mm centres complete with 250 x 180mm thick class 15Mpa/19mm unreinforced cast in-situ concrete continuous anchor block strip for the full length at back of kerbing, circular on plan to not exceeding 4 000mm radius formed with short lengths (maximum 300mm long) of straight kerb including excavation, backfilling, etc. | m | 1 | 136.48 | 136.48 |
| | | | | - | |
| 17.19 | <u>Sundries</u> | | | - | |
| | | | | - | |
| 17.19.1 | Joint of new fig 7 kerb to existing kerb, including all cutting | m | 1 | 15.29 | 15.29 |
| | | | | - | |
| 17.20 | <u>SABS 731-1987 yellow or white roadmark paint on paving at a rate of 1 litre/m2</u> | | | - | |
| | | | | - | |
| 17.20.1 | Line 100mm wide | m | 1 | 13.10 | 13.10 |
| | | | | - | |
| 17.20.2 | Line 100mm wide (RTM 1) | m | 1 | 13.10 | 13.10 |

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| 17.20.3 | Numeral or letter 400mm high | no | 1 | 92.80 | 92.80 |
| 17.20.4 | Numeral or letter 1250mm high (GM7) | no | 1 | 117.37 | 117.37 |
| 17.20.5 | Traffic arrow 1250 x 500mm wide extreme (G M4.1) | no | 1 | 117.37 | 117.37 |
| 17.20.6 | Information sign for "people with disability" parking in 150mm wide lines | m ² | 1 | 120.62 | 120.62 |
| 17.20.7 | 550 x 235 x 1600mm cast in-situ concrete dish channel | no | 1 | 187.13 | 187.13 |
| <u>DRAINAGE</u> | | | | | - |
| <u>Stormwater drainage pipes</u> | | | | | - |
| <u>SABS 966 Class 9 uPVC pressure pipes, laid to falls on and including imported bedding for flexible pipes as SABS 1200LB, drawing LB-2(a) with bottom of trench compacted to 90% Modified AASHTO density (backfilling importation elsewhere measured)</u> | | | | | - |
| 17.21 | | | | | - |
| 17.21.1 | 200mm Pipes laid in and including trenches not exceeding 1m deep | m | 1 | 294.79 | 294.79 |
| 17.21.2 | 200mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 1 | 383.22 | 383.22 |
| 17.21.3 | 200mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep | m | 1 | 498.19 | 498.19 |
| <u>SABS 966 Class 9 uPVC pressure pipes, laid to falls on and including imported bedding for flexible pipes as SABS 1200LB, drawing LB-2(a) including backfilling with soil raft foundation material</u> | | | | | - |
| 17.22 | | | | | - |
| 17.22.1 | 200mm Pipes laid in and including trenches not exceeding 1m deep | m | 1 | 294.79 | 294.79 |
| 17.22.2 | 200mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 1 | 383.22 | 383.22 |
| 17.22.3 | 200mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep | m | 1 | 498.19 | 498.19 |
| <u>Plain ended cast iron pipes with SSN couplings, laid to falls on and including imported ClassB bedding for rigid pipes as SABS 1200LB drawing LB-1(b) with bottom of trench compacted to 90% Modified AASHTO density (backfilling importation measured elsewhere)</u> | | | | | - |
| 17.23 | | | | | - |
| 17.23.1 | 200mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep in soil raft foundation | m | 1 | 633.24 | 633.24 |
| <u>Extra over uPVC Class 9 pipes for fittings</u> | | | | | - |
| 17.24 | | | | | - |
| 17.24.1 | 200mm Bend | no | 1 | 617.41 | 617.41 |

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| 17.24.2 | 200mm Junction | no | 1 | - 664.91 | 664.91 |
| 17.24.3 | 200mm SSN coupling | no | 1 | - 702.90 | 702.90 |
| 17.25 | <u>Grid inlets, kerb inlets, field inlets, catchpits, etc. (steel and cast iron gratings and covers elsewhere measured)</u> | | | - | |
| 17.25.1 | Grid inlet 500 x 500mm and exceeding 500mm and not exceeding 750mm deep internally | no | 1 | - 682.38 | 682.38 |
| 17.25.2 | Grid inlet 500 x 500mm and exceeding 750mm and not exceeding 1000mm deep internally | no | 1 | - 823.22 | 823.22 |
| 17.25.3 | Grid inlet 500 x 500mm and exceeding 1000mm and not exceeding 1250mm deep internally | no | 1 | - 962.97 | 962.97 |
| 17.25.4 | Grid inlet 500 x 500mm and exceeding 1250mm and not exceeding 1500mm deep internally | no | 1 | - 1 126.90 | 1 126.90 |
| 17.25.5 | Grid inlet 500 x 500mm and exceeding 1500mm and not exceeding 1750mm deep internally | no | 1 | - 1 318.48 | 1 318.48 |
| 17.25.6 | Junction box 500 x 500mm and not exceeding 500mm with concrete slab over | no | 1 | - 627.79 | 627.79 |
| 17.26 | <u>Heavy duty precast concrete circular inspection chambers including step irons, bases, etc (covers elsewhere)</u> | | | - | |
| 17.26.1 | Inspection chamber 1000mm diameter exceeding 2 500mm and not exceeding 2 750mm deep internally (on top of existing stormwater pipe including altering benching, etc | no | 1 | - 3 602.94 | 3 602.94 |
| 17.27 | <u>Covers, etc.</u> | | | - | |
| 17.27.1 | 450 x 450 x 79kg Medium duty cast iron flat stormwater grating and frame | no | 1 | - 1 621.32 | 1 621.32 |
| 17.27.2 | 550mm Diameter x 75kg type 4A single seal cast iron manhole cover and frame | no | 1 | - 1 654.08 | 1 654.08 |
| 17.28 | <u>Sundries</u> | | | - | |
| 17.28.1 | Approved G6 imported imported material to be supplied by the contractor for use in pipe bacfilling to trenches in 150mm thick layers compacted to 90% Modified AASHTO density | m ³ | 1 | - 272.95 | 272.95 |
| 17.28.2 | Extra over trench excavations (irrespective of depth) for keeping exposed or open trench sides and bottoms wet at natural moisture conditions by adding or spraying of water for the whole duration of the trenching, pipe laying and backfill processes or construction duration | Item | 1 | - 125.56 | 125.56 |
| 17.29 | <u>Testing</u> | | | - | |
| 17.29.1 | Testing stormwater drainage pipe system | Item | 1 | - - | - |
| | <u>Soil drainage pipes</u> | | | - | |

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| | <u>SABS 791 Class 34 "Mainlite" uPVC pipes with rubber-ring seal couplings, laid to falls on and including imported bedding for flexible pipes as SABS 1200LB, drawing L-B2(a) with bottom of trench compacted to a minimum of 90% Modified AASHTO density (backfilling importation elsewhere measured)</u> | | | - | |
| 17.30 | | | | - | |
| 17.30.1 | 110mm Pipes laid in and including trenches not exceeding 1m | m | 1 | 196.52 | 196.52 |
| 17.30.2 | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 1 | 226.00 | 226.00 |
| | <u>SABS 791 Class 34 "Mainlite" uPVC pipes with rubber-ring seal couplings, laid to falls on and including imported bedding for flexible pipes as SABS 1200LB, drawing L-B2(a) including backfilling with soil raft foundation material</u> | | | - | |
| 17.31 | | | | - | |
| 17.31.1 | 110mm Pipes vertically or ramped to cleaning eyes, etc. (no excavation) | m | 1 | 180.15 | 180.15 |
| 17.31.2 | 110mm Pipes laid in and including trenches not exceeding 1m deep in soil raft foundation | m | 1 | 207.17 | 207.17 |
| 17.31.3 | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep in soil raft foundation | m | 1 | 238.24 | 238.24 |
| 17.32 | <u>Extra over uPVC Class 34 pipes for fittings</u> | | | - | |
| 17.32.1 | 110mm Bend | no | 1 | 196.52 | 196.52 |
| 17.32.2 | 110mm Junction | no | 1 | 262.03 | 262.03 |
| 17.32.3 | 110mm Access junction | no | 1 | 281.68 | 281.68 |
| 17.32.4 | 110mm x 50mm Reducer | no | 1 | 262.03 | 262.03 |
| 17.32.5 | 110mm x 50mm Reducing junction | no | 1 | 278.41 | 278.41 |
| 17.32.6 | 110mm SSN coupling | no | 1 | 311.16 | 311.16 |
| 17.33 | <u>uPVC gulleys</u> | | | - | |
| 17.33.1 | 110mm Gulley complete with hopper head and grating, not exceeding 1 000mm deep | no | 1 | 1 080.88 | 1 080.88 |
| 17.34 | <u>Heavy duty precast concrete circular inspection chambers including step irons, bases, etc (covers elsewhere)</u> | | | - | |
| 17.34.1 | Inspection chamber 1 000mm diameter exceeding 2 000mm deep internally | no | 1 | 2 129.01 | 2 129.01 |
| 17.35 | <u>Covers, etc</u> | | | - | |
| 17.35.1 | 550mm Diameter heavy duty precast concrete removable cover and frame | no | 1 | 1 195.52 | 1 195.52 |
| 17.35.2 | Lifting key for manhole cover | no | 1 | 229.28 | 229.28 |

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| | <u>FENCING</u> | | | - | |
| | | | | - | |
| | | | | - | |
| 17.36 | <u>Mild steel welded palisade fence including spot prime exposed metal surfaces and and two coats high gloss enamel paint</u> | | | - | |
| 17.36.1 | Palisade fence 1800mm high of 40 x 40 x 3mm angle section continuous top and bottom rails and 30 x 30 x 3mm angle section pickets with top end split and sharpened at average 150mm centres, welded to rails, rails welded 2200mm high posts of 76 x 76 x 5mm square tube with steel pyramid shaped capping on top at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 929.53 | 929.53 |
| 17.36.2 | Palisade fence 2400mm high of 40 x 40 x 3mm angle section continuous top and bottom rails and 30 x 30 x 3mm angle section pickets with top end split and sharpened at average 150mm centres, welded to rails, rails welded 2600mm high posts of 76 x 76 x 5mm square tube with steel pyramid shaped capping on top at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean, neat and painted | m | 1 | 1 085.41 | 1 085.41 |
| 17.36.3 | Palisade pedestrian gate 900mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty hinges, security type locking device suitable for hand operated control, completely installed and painted | no | 1 | 2 352.83 | 2 352.83 |
| 17.36.4 | Palisade fence vehicle sliding gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, steel track cast in or bolted to and including concrete rail footing, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. completely installed and painted | no | 1 | 13 429.14 | 13 429.14 |
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| 17.36.5 | Palisade fence vehicle sliding gate 6000mm wide x 2400mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, steel track cast in or bolted to and including concrete rail footing, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. completely installed | no | 1 | 15 721.92 | 15 721.92 |
| | | | | - | |
| 17.36.6 | Palisade fence vehicle swing double gate 3000mm wide x 2400mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, etc. completely installed and painted | no | 1 | 7 336.90 | 7 336.90 |
| | | | | - | |
| 17.36.7 | Palisade fence vehicle swing double gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, etc. completely installed and painted | no | 1 | 13 156.19 | 13 156.19 |
| | | | | - | |
| 17.36.8 | Palisade fence vehicle swing double gate 6000mm wide x 2400mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, etc. completely installed and painted | no | 1 | 14 673.79 | 14 673.79 |
| | | | | - | |
| 17.38 | <u>Making good complete</u> | | | - | |
| | | | | - | |
| | | | | - | |
| 17.38.1 | Palisade pedestrian gate 900mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty hinges, security type locking device suitable for hand operated control | no | 1 | 352.11 | 352.11 |
| | | | | - | |

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| 17.38.2 | Palisade fence vehicle sliding gate 6000mm wide x 1800mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. | no | 1 | 2 674.91 | 2 674.91 |
| 17.38.3 | Palisade fence vehicle sliding gate 6000mm wide x 2400mm high overall, formed of 150 x 75 x 3mm thick hollow section frame, 100 x 75 x 3mm thick hollow section middle rail and cross bracing bars and with 25 x 25 x 2.5mm thick angle section spiked vertical bars at maximum 143mm centres welded to frame, middle rail and cross bracing bars complete with approved heavy duty castors, steel track cast in or bolted to and including concrete rail footing, security type locking device suitable for hand operated control rail, gate stops, gate guides, etc. completely installed | no | 1 | 2 674.91 | 2 674.91 |
| 17.39 | <u>Concrete Palisade Fence</u> | | | - | - |
| 17.39.1 | Palisade fence 1800mm high of stacked slats, slid in-between 2300mm high posts of 110 x 70mm H-section post at 1500mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 745.34 | 745.34 |
| 17.39.2 | Palisade fence 2400mm high of stacked slats, slid in-between 2900mm high posts of 110 x 70mm H-section post at 1500mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 894.40 | 894.40 |
| 17.40 | <u>Precast Concrete Fence</u> | | | - | - |
| 17.40.1 | Precast slatted fence 1800mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 635.08 | 635.08 |
| 17.40.2 | Precast slatted fence 2400mm high of 110 x 70mm section continuous top and bottom rails and 140 x 70mm section with top end mitred at average 150mm centres, bolted to rails, rails bolted 2200mm high posts of 140 x 140mm square post at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 793.85 | 793.85 |

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| 17.40.3 | Precast slatted fence panel size 1500 x 300mm | no | 1 | - 280.09 | 280.09 |
| 17.41 | <u>Diamond Wire Mesh</u> | | | - - | |
| 17.41.1 | 70 x 70mm Galvanised diamond wire mesh fence 1800mm high with seven horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 635.08 | 635.08 |
| 17.41.2 | 70 x 70mm Galvanised diamond wire mesh fence 3600mm high with fourteen horizontal strand wire of 2.9mm diameter fixed to posts, y-standards, droppers, etc with posts at 2475mm centres with 500mm bottom ends cast into and including 15Mpa concrete footing in ground including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 1 270.16 | 1 270.16 |
| 17.41.3 | Post 2000 x 101 x 3mm hot dipped galvanised | no | 1 | - 427.99 | 427.99 |
| 17.41.4 | Stay 2000 x 48 x 2m hot dipped galvanised | no | 1 | 200.89 | 200.89 |
| 17.41.5 | Y - standard 1850mm | no | 1 | - 85.65 | 85.65 |
| 17.41.6 | Droppers 1200mm | no | 1 | - 24.57 | 24.57 |
| | <u>Diamond Wire Mesh 1.2m high for Low Cost Housing</u> | | | - - | |
| 17.41.7 | Wire mesh fencing shall be 1.2 m high formed of 50mm mesh chain link netting 2.5 mm diameter galvanised mild steel wire stained and secured to top and bottom rails and posts. Fencing shall be formed with three 4mm gauge strands of staining wire between 75 mm diameter posts inclusive of 38 mm tubular stays and intermediate rolled steel standards at approximately 3.65m. Corner posts shall have a minimum diameter of 75mm, 1.8m long for 1.2m high fencing and set 0.6 m deep in the ground with ends embedded in class "c" concrete. Stays shall have a minimum diameter of 38mm, 2.8mm thick. Stays shall also be neatly mitred and welded to corner and end posts. Corner posts are to be provided with two stays and end posts with one stay. | m | 1 | 155.63 | 155.63 |
| 17.41.8 | Single pedestrian gate shall be 0.9 x 1.2 m high formed of 38mm diameter x 2.8 thick pipe framing all round complete with one 38mm diameter thick x 2.8 mm thick pipe horizontal brace all neatly mitred and welded at intersections, the gate with two strands of 4mm thick galvanised mild steel straining wire. | no | 1 | - 1 545.00 | 1 545.00 |

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| 17.41.9 | Single Vehicle gate shall be 3.2 x 1.2 m high formed of 38mm diameter x 2.8 thick pipe framing all round complete with one 38mm diameter thick x 2.8 mm thick pipe horizontal brace all neatly mitred and welded at intersections, the gate with two strands of 4mm thick galvanised mild steel straining wire. | no | 1 | 2 884.00 | 2 884.00 |
| 17.42 | <u>Razor barbed wire</u> | | | - | |
| 17.42.1 | Razor Flat-wrap - To top or bottom of fence - not exceeding 6 strands | m | 1 | 107.00 | 107.00 |
| 17.42.2 | Concertina Barbed Wire to top of fence | m | 1 | 153.29 | 153.29 |
| 17.43 | <u>Sundries</u> | | | - | |
| 17.43.1 | 40 x40 x 2mm angle section @ 2m, for razor barbed wire support at 500mm length | no | 1 | 34.26 | 34.26 |
| 17.43.2 | Replace missing Steel Palisade fence Slats 1800mm high made of 30 x 30 x 3mm angle section pickets with top end split and sharpened, welded to top and bottom rails including painting on both sides | no | 1 | 180.77 | 180.77 |
| 17.43.2a | Replace missing Steel Palisade fence Slats 2400mm high made of 30 x 30 x 3mm angle section pickets with top end split and sharpened, welded to top and bottom rails including painting on both sides | no | 1 | 241.02 | 241.02 |
| 17.43.3 | Fix pedestrian gate including lock, hinges, slats, etc | no | 1 | 352.11 | 352.11 |
| 17.43.4 | Replace missing Concrete Palisade fence Slats 1800mm high made of 110 x 70mm reinforced concrete | no | 1 | 200.89 | 200.89 |
| 17.43.5 | Replace missing Concrete Palisade fence Slats 2400mm high made of 110 x 70mm reinforced concrete | no | 1 | 267.85 | 267.85 |
| 17.44 | <u>"Betafence 3510" galvanised wire panels with adhesion coat coating, minimum 200micron and PVC coated to a perfect and durable finish, minimum 60micron</u> | | | - | |
| 17.44.1 | Panels 1988mm high fixed to 2600mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 1 242.47 | 1 242.47 |

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| 17.44.1a | Panels 2376mm high fixed to 3000mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 2 916.76 | 2 916.76 |
| 17.44.2 | Panels 6000mm high fixed to 2600mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m ² | 1 | 715.00 | 715.00 |
| 17.44.3 | PVC coated serrated strip 3000mm long, including backing plates fixed to top of panel | m ² | 1 | 715.00 | 715.00 |
| | Serrated strip 3000mm long, including backing plates fixed to top of panel | m | 1 | 90.63 | 90.63 |
| 17.44.4 | Hot Dipped Galvanised serrated strip 3000mm long, including backing plates fixed to top of panel | m | 1 | 78.54 | 78.54 |
| 17.44.5 | Swing gate "Singleskin Flat" wire 3.96mm diameter PVC RAL 7021 MTO 2000mm high x 1000mm wide | no | 1 | 7 342.36 | 7 342.36 |
| 17.44.6 | Vehicle sliding gate "Singleskin Flat" wire 3.96mm diameter PVC RAL 7021 MTO 2000mm high x 6000mm wide | no | 1 | 31 560.97 | 31 560.97 |
| 17.45 | <u>"Betafence 3510" galvanised wire panels with hot dipped galvanised coating, zincalu super coated to SANS 10244-2:2003 specification</u> | | | - | - |
| 17.45.1 | Panels 2000mm high fixed to 2600mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 1 038.14 | 1 038.14 |
| 17.45.1a | Panels 2376mm high fixed to 3000mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m | 1 | 2 087.92 | 2 087.92 |

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| 17.45.2 | Panels 6000mm high fixed to 2600mm "Bekafix Secure" PVC coated post at 3050 centres including stainless steel mini spider brackets, M8 x 25 x 2mm bolts, M8 shear nuts and M8 x 50mm cup square and posts 600mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat | m ² | 1 | 596.64 | 596.64 |
| 17.45.3 | Hot Dipped Galvanised serrated strip 3000mm long, including backing plates fixed to top of panel | m | 1 | 78.54 | 78.54 |
| 17.45.4 | Swing gate "Singleskin Flat" wire 3.96mm diameter PVC RAL 7021 MTO 2000mm high x 1000mm wide | no | 1 | 5 450.42 | 5 450.42 |
| 17.45.5 | Vehicle sliding gate "Singleskin Flat" wire 3.96mm diameter PVC RAL 7021 MTO 2000mm high x 6000mm wide | no | 1 | 20 823.24 | 20 823.24 |
| | <u>CARPOTS WITH ROOF SHEETING TO SLIGHT FALLS</u> | | | - | - |
| | <u>Carpots comprising the following: concrete foundations for columns to be 20Mpa concrete, 500 x 500 x 600mm deep including all excavations, backfilling, compaction, carting away, etc; columns 76 x 76 x 3mm hot rolled tubing with 150 x 150 x 3mm base plates and 200 x 70 x 6mm top flanges; columns 2600mm minimum height, beams; 76 x 76 x 3mm hot rolled tubing with closed ends; beams bolted to columns with two 10 x 100mm bolts and nuts at each column; purlins; 150 x 75 x 20 x 3mm hot rolled lipped channels bolted to cleats on beams with 0.5mm thick chromadek finished IBR profile roof sheeting; all steelwork cleaned with degreaser and painted with one each of red oxide and universal primer with two coats enamel paint</u> | | | - | - |
| 17.46.1 | Carpot comprising one bay, 2,5 x 5,0m on plan, including cutting of existing paving blocks around columns | no | 1 | 6 168.67 | 6 168.67 |
| 17.46.2 | Range of carpots (one row) comprising two bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns | no | 1 | 11 720.47 | 11 720.47 |
| 17.46.3 | Range of carpots (one row) comprising three bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns | no | 1 | 17 580.71 | 17 580.71 |
| 17.46.4 | Range of carpots (one row) comprising four bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns | no | 1 | 23 440.95 | 23 440.95 |
| 17.46.5 | Range of carpots (one row) comprising five bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns | no | 1 | 29 301.18 | 29 301.18 |

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| 17.46.6 | Range of carpots (one row) comprising six bays, each bay 2,5 x 5,0m on plan, with carpot structure stepped over sloping site if required, including cutting of existing paving blocks around columns | no | 1 | 35 161.42 | 35 161.42 |
| | <u>COURTS</u> | | | - | |
| 17.47 | <u>Clay Courts "NEW"</u> | | | - | |
| 17.47.1 | Volleyball, netball, basketball, multi-purpose courts including markings (earthworks measured elsewhere) | m ² | 1 | 354.84 | 354.84 |
| 17.48 | <u>Refurbishment of Clay Courts</u> | | | - | |
| 17.48.1 | Volleyball, netball, basketball, multi-purpose courts including markings | m ² | 1 | 201.98 | 201.98 |
| 17.48.2 | Volleyball, netball, basketball, multi-purpose courts including markings in bad conditions | m ² | 1 | 201.98 | 201.98 |
| | <u>GRADING</u> | | | - | |
| 17.49 | <u>Grading of soccer fields</u> | | | - | |
| 17.49.1 | Open face excavation to reduce levels | m ² | 1 | 4.61 | 4.61 |
| 17.50 | <u>"Enviro Outdoor Furniture" or equally approved</u> | | | - | |
| 17.50.1 | Plastic jungle gym combo | no | 1 | 21 689.40 | 21 689.40 |
| 17.50.2 | Plastic two seater sleeper bench 1200mm with back and set in concrete base including all excavations and formwork | no | 1 | 2 399.23 | 2 399.23 |
| 17.50.3 | Plastic three seater sleeper bench 1800mm with back and set in concrete base including all excavations and formwork | no | 1 | 2 838.68 | 2 838.68 |
| 17.50.4 | Plastic five seater picnic set with open back bench and table set in concrete base including all excavations and formwork | no | 1 | 4 668.21 | 4 668.21 |
| 17.50.5 | Plastic square swivel bin | no | 1 | 1 521.25 | 1 521.25 |
| 17.50.6 | Rubber playground flooring | m ² | 1 | 445.45 | 445.45 |
| 17.51 | <u>Steel seaters, poles, posts, etc.</u> | | | - | |
| | <u>Epoxy coated</u> | | | - | |
| 17.51.1 | Four seater swing with A-frame Code "S2 Junior" | no | 1 | 3 548.35 | 3 548.35 |
| 17.51.2 | "Tharad" or equally approved three seater senior swing | no | 1 | 11 309.30 | 11 309.30 |
| 17.51.3 | 50mm diameter aluminium mini soccer goal posts set, size 1000 x 1500 x 1000mm with nets | no | 1 | 6 485.29 | 6 485.29 |
| 17.51.4 | "Van Dyck" or equally approved easy soccer outdoor carpeting secured with resin based glue to concrete surfaces | m ² | 1 | 491.31 | 491.31 |

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| | | | | - | |
| | | | | - | |
| 17.52 | <u>"Jungle Gym World" or equally approved</u> | | | - | |
| 17.52.1 | Code "SP 3" Ball throwing stand | no | 1 | 496.77 | 496.77 |
| | | | | - | |
| 17.52.2 | Code "JG3" Toddler's Beginners | no | 1 | 7 806.37 | 7 806.37 |
| | | | | - | |
| 17.52.3 | Code "JG4" Toddler's Advanced | no | 1 | 8 516.04 | 8 516.04 |
| | | | | - | |
| 17.52.4 | Code "JG 8" Junior Jungle Gym | no | 1 | 9 225.71 | 9 225.71 |
| | | | | - | |
| 17.52.5 | Code "JG 9" Junior Jungle Gym | no | 1 | 10 361.18 | 10 361.18 |
| | | | | - | |
| 17.52.6 | Code "JG 10" Senior Jungle Gym | no | 1 | 13 483.73 | 13 483.73 |
| | | | | - | |
| 17.52.7 | Code "JG 11" Senior De Lux Jungle Gym | no | 1 | 14 903.07 | 14 903.07 |
| | | | | - | |
| 17.52.8 | Code "JG 12" Super Senior Jungle Gym | no | 1 | 15 934.82 | 15 934.82 |
| | | | | - | |
| 17.52.9 | Code "JG 25 A" No Tyre Tunnel | no | 1 | 17 032.08 | 17 032.08 |
| | | | | - | |
| 17.52.10 | Code "JG 25 A" With Tyre Tunnel | no | 1 | 17 796.34 | 17 796.34 |
| | | | | - | |
| 17.52.11 | Implanted Heavy Duty Junior Jungle Gym | no | 1 | 14 193.40 | 14 193.40 |
| | | | | - | |
| 17.52.12 | One Seater Implanted Swing | no | 1 | 3 548.35 | 3 548.35 |
| | | | | - | |
| 17.52.13 | Two-Seater A-Frame Swing | no | 1 | 2 838.68 | 2 838.68 |
| | | | | - | |
| 17.52.14 | Four-Seater A-Frame Swing | no | 1 | 3 548.35 | 3 548.35 |
| | | | | - | |
| 17.52.15 | Four-Seater Implanted Swing | no | 1 | 5 677.36 | 5 677.36 |
| | | | | - | |
| 17.52.16 | Carousel Swing | no | 1 | 7 096.70 | 7 096.70 |
| | | | | - | |
| 17.52.17 | See Saw Swing | no | 1 | 3 548.35 | 3 548.35 |
| | | | | - | |
| 17.52.18 | Implanted Four Seat Swing | no | 1 | 11 354.72 | 11 354.72 |
| | | | | - | |
| 17.52.19 | Code "SR 1" Rocking Horse | no | 1 | 709.67 | 709.67 |
| | | | | - | |
| 17.52.20 | Code "SR 2" Four Seat Rocking Sleigh | no | 1 | 3 548.35 | 3 548.35 |
| | | | | - | |
| 17.52.21 | Code "HD Ssaw" Implanted Four Seat See Saw | no | 1 | 5 677.36 | 5 677.36 |
| | | | | - | |
| 17.52.22 | Code " HD SS" Implanted Slide Stand with 5m steel slide | no | 1 | 17 032.08 | 17 032.08 |
| | | | | - | |
| 17.52.23 | Code "SP 8B" One soccer goal posts (pre-school) | no | 1 | 1 419.34 | 1 419.34 |
| | | | | - | |
| 17.52.24 | Code "SP 5B" netball pole 2000mm high with ring and net | no | 1 | 567.74 | 567.74 |
| | | | | - | |
| 17.52.25 | Code "SP 6B" netball pole 3000mm high with ring and net | no | 1 | 709.67 | 709.67 |
| | | | | - | |
| 17.52.26 | Code "SP 8A" Soccer goal posts (pre-school) | no | 1 | 2 838.68 | 2 838.68 |
| | | | | - | |
| 17.52.27 | Code "SP 5A" Netball posts set 2000mm high with ring and net | no | 1 | 1 135.47 | 1 135.47 |
| | | | | - | |

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| 17.52.28 | Code "SP 6A" netball pole 3000mm high with ring and net cast into concrete | no | 1 | 1 419.34 | 1 419.34 |
| 17.52.29 | Code "SP1" Basket and netball wall mounted ring | no | 1 | 283.87 | 283.87 |
| 17.52.30 | Code "SP2" Basketball ring with 3000mm high stand and blocker | no | 1 | 1 135.47 | 1 135.47 |
| 17.52.31 | Code "SP4" Jogging barrel | no | 1 | 1 277.41 | 1 277.41 |
| 17.52.32 | Code "SP7" set of implant rugby posts (pre-school) | no | 1 | 2 838.68 | 2 838.68 |
| 17.53 | <u>"Gimtrac" or equally approved</u> | | | - | |
| 17.53.1 | Code "SOCC012" 3000 x 2000 x 1000mm mini soccer goal post set | no | 1 | 10 134.59 | 10 134.59 |
| 17.53.2 | Code "SOCC012" 1000 x 1500 x 1000mm Aluminium mini soccer goal post set | no | 1 | 7 025.73 | 7 025.73 |
| 17.53.3 | Code "SOCC012" Five seater aluminium soccer shelter | no | 1 | 36 826.89 | 36 826.89 |
| | <u>PREFABRICATED SHELTERS</u> | | | - | |
| 17.54 | <u>WENDY HUTS</u> | | | - | |
| 17.54.1 | 2400 X 2400mm "Rock Hard" wendy house with dune walls, galvanised roof including concrete surface bed | no | 1 | 12 845.03 | 12 845.03 |
| | <u>PHYSICAL BARRIERS</u> | | | - | |
| 17.55 | <u>BOOM GATES</u> | | | - | |
| 17.55.1 | Steel boom gates not exceeding 6000mm long | no | 1 | 14 624.89 | 14 624.89 |
| 17.56 | <u>BOLLARDS</u> | | | - | |
| 17.56.1 | 200mm Diameter precast concrete bollards not exceeding 1500mm | no | 1 | 499.91 | 499.91 |
| 17.56.2 | 200mm Diameter steel bollards with concrete infill not exceeding 1500mm | no | 1 | 643.03 | 643.03 |
| 17.56.3 | 400 x 400mm precast concrete dustbin not exceeding 1500mm high | m | 1 | 1 687.92 | 1 687.92 |
| 17.57 | <u>TIMBER RAILING</u> | | | - | |
| 17.57.1 | Tanalith treated vertical lath (wood) handrails 1200mm high | m | 1 | 341.95 | 341.95 |
| 17.58 | <u>RETAINING WALL BLOCKS</u> | | | - | |
| 17.58.1 | Terraforce or Loffelstein or equally approved retaining wall blocks or equivalent retaining wall smooth finish closed face @ 9 blocks per m2. Including AG900 Bidum | m2 | 1 | 695.25 | 695.25 |
| | | | | - | |

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| 17.58.2 | Terraforce or Loffelstein or equally approved retaining wall blocks or equivalent retaining wall smooth finish closed face @ 6.5 blocks per m2. Including AG900 Bidum. Earthworks elsewhere. | m2 | 1 | 533.03 | 533.03 |
| | | | | - | |
| 17.58.3 | Terraforce or Loffelstein or equally approved retaining wall blocks or equivalent retaining wall smooth finish closed face @ 9 blocks per m2. Including AG900 Bidum | m2 | 1 | 741.60 | 741.60 |
| | | | | - | |
| 17.58.4 | Terraforce or Loffelstein or equally approved retaining wall blocks or equivalent retaining wall smooth finish closed face @ 6.5 blocks per m2. Including AG900 Bidum. Earthworks elsewhere. | m2 | 1 | 566.50 | 566.50 |
| | | | | - | |
| 17.59 | GRASS BLOCKS | | | - | |
| | | | | - | |
| | | | | - | |
| 17.59.1 | Loffelstein grass block or equivalent 600x400x120mm including earthworks @ 4.1 blocks per m2. | m2 | 1 | 295.61 | 295.61 |