

SCHEDULE A: PLELIMANRY AND GENERAL

A260		(b) Handling costs in respect of item A250	%%
		PLANT CHARGES (As ordered by the Employer's Agent)		
A270		(a) Backhoe / Digger loader	h	
A280		(b) Tractor	h	
A290		(c) Trailor	h	
		(d) Tip truck		
A300		(i) Capacity of 6 m3	h	
A310		(ii) Capacity of 10 m3	h	
A320		(e) Walk-behind vibrating roller (1t)	h	
A330		(f) Plate compactor	h	
A340		(g) Water cart (5000 l)	h	
A350		(h) Water cart (9000 l)	h	
A360		(i) Concrete mixer	h	
		(k) Flat bed truck		
A370		(i) Capacity of 3 ton	h	
A380		(ii) Capacity of 6 ton	h	
A390		(l) Compressor (16 m3 / min) including hoses and breakers	h	
A400		(m) Excavator (minimum 20 ton)	h	
A410		(n) Excavator (minimum 30 ton)	h	
		(o) Light delivery vehicle		
A420		(i) Capacity of 0,5 ton	h	
A430		(ii) Capacity of 1 ton	h	
		(p) Pumps		
		Super Silent Selwood Seltorque pumps (or similar approved)		
A431		(i) 75mm diam	h	

SCHEDULE A: PLELIMANRY AND GENERAL

A440		(ii) 100mm diam	h	
A450		(iii) 150mm diam	h	
A460		(q) Sludge pump	h	
A470		(r) Other plant not specified above	Prov Sum	10 000.00
A480		(s) Handling costs in respect of item A480	%%
	PSA 8.8	TEMPORARY WORKS		
	PSA 8.8.2	Accommodating traffic and maintaining temporary deviations one and two-way traffic as per the traffic manual in: (incl. traffic safety officer, delineators and all signage)		
A490		(a) Point repair (Up to 15 meter)	No.	
A500		(b) Point repair (Over 15m and up to 30 meter)	No.	
A510		(c) Short Term Works	km	
A520		(d) Urban streets - Two-Way lane closure	km	
A530		(e) Urban streets - One-Way traffic accommodated	km	
A540		(f) Urban streets - Lane Closure in and beyond junction	km	
A550		(g) Minor Arterial: Traffic Accommodation for Launch Pits and Point Repairs	km	
		Accommodating traffic and maintaining temporary deviations one and two-way traffic as per SARTSM traffic manual for time related items:		
A551		(a) Flagmen	Day	
A552		(b) Maintenance of Road Signs	Day	
	PSA 8.8.4.1	Location and protection of existing services		
A560		(a) Supply or hire of specialist equipment for detection of existing services	Sum	
A570		(b) The use of specialist equipment for detection	h	
	PSA 8.8.4.2	Hand excavation necessary for locating and exposing existing services in all materials:		

A580		(a) In roadways	m ³	
A590		(b) In all other areas	m ³	
	PSA 8.8.7	Dealing with water:		
A600		(a) Dealing with subsurface water	Sum	

SCHEDULE A: PLELIMANRY AND GENERAL

A800		h) Other	Prov Sum	2 000.00
A810		i) Handling costs and profit for item A840	%%
A820		j) Application for use of portion of public open space per Works Project	Prov Sum	5 000.00
A830		k) Monthly rental of portion of public open space per Works Project	Prov Sum	5 000.00
	PSA 8.9	HEALTH AND SAFETY		
A840	PSA 8.9.1	Complying with Health and Safety requirements	day	
	PSA 8.9.2	Asbestos Specialist Services:		
A850		(a) Approved Asbestos Inspection Authority (AIA) to assist the contractor with the approval of the asbestos plan of work, in accordance with legislation (upon instruction from the Employers Agent)	Prov Sum	10 000.00
A860		(b) Administrative costs and profit in respect of item A850	%	
A870		(c) Handling and disposal of asbestos-containing waste from site to the permitted Vissershok landfill site, in accordance with legislation	Sum	
A880		(d) Transport of asbestos-containing waste at the permitted low-hazard (H:h) landfill site at Vissershok, in accordance with legislation	ton.km	
A890		(e) Cost of dumping at permitted Vissershok landfill site (Original tipping slips are required for audit purposes)	ton	
A900		Medical surveillance per site employee of the Contractor, as stipulated in Asbestos Regulations	No.	
		ENVIRONMENTAL MANAGEMENT		
A910	PSA 8.10	Complying with Environmental Management requirements	day	
A920	PSA 8.11	Noise Exemption Permit per Works Project	Sum	
		COMMUNITY LIAISON OFFICER		
A930		a) Employment of CLO	day	460
A940		a) Handling costs and profit for item A930	%%

SCHEDULE AA: PLELIMANRY AND GENERAL (SMALL WORKS)

AA420		(r) Other plant not specified above	Prov Sum	5 000.00
AA430		(s) Handling costs in respect of item A480	%%
	PSAA 8.7	TEMPORARY WORKS		
	PSA 8.7.1	Accommodating traffic and maintaining temporary deviations one and two-way traffic as per the traffic manual in : (incl. traffic safety officer, delineators and all signage)		
AA440		(a) Point repair (Up to 15 meter)	No.	
AA450		(b) Point repair (Over 15m and up to 30 meter)	No.	
AA460		(c) Short Term Works	km	
AA470		(d) Urban streets - Two-Way lane closure	km	
AA480		(e) Urban streets - One-Way traffic accommodated	km	
AA490		(f) Urban streets - Lane Closure in and beyond junction	km	
AA500		g) Minor Arterial: Traffic Accommodation for Launch Pits and Point Repairs	km	
		Accommodating traffic and maintaining temporary deviations one and two-way traffic as per SARTSM traffic manual for time related items:		
AA501		(a) Flagmen	Day	
AA502		(b) Maintenance of Road Signs	Day	
	PSAA 8.7.2.1	Location and protection of existing services		
AA510		(a) Supply or hire of specialist equipment for detection of existing services	Sum	
AA520		(b) The use of specialist equipment for detection	h	
	PSAA 8.7.3.2	Hand excavation necessary for locating and exposing existing services in all materials:		
AA530		(a) In roadways	m ³	
AA540		(b) In all other areas	m ³	
	PSAA 8.7.4	Dealing with water:		

AA550		(a) Dealing with subsurface water	Sum	
AA560		(b) Dealing with surface water	Sum	
		(c) Extra-over for item (a) above:		
AA570		i) Installation of well points	m	

SCHEDULE C: EARTHWORKS

C930		Grey interlocking pavers	m ²	
C940		Tan interlocking pavers	m ²	
C950		Charcoal interlocking pavers	m ²	
C960		Terracotta interlocking pavers	m ²	
		Concrete cobble paving blocks (Class 30, 50mm thickness) complete with 20mm sand bedding and joint filling sand		
C970		Single charcoal cobble	m ²	
C980		Double charcoal cobble	m ²	
		Concrete cobble paving blocks (Class 30, 70mm thickness) complete with 20mm sand bedding and joint filling sand		
C990		Single charcoal cobble	m ²	
C1000		Double charcoal cobble	m ²	
		(a) Clay block paving (Class PA, 200x100x50mm thickness) complete with 20mm sand bedding and joint filling sand		
C1010		(i) De Hoop Red	m ²	
C1020		(ii) Wheatstone	m ²	
		(b) Clay block paving (Class PA, 222x100x73mm thickness) complete with 20mm sand bedding and joint filling sand		
C1030		(i) De Hoop Red	m ²	
C1040		(ii) Wheatstone	m ²	
C1050		Installation of pavers (Paver costs measured separately) on 20mm sand bed.	m ²	
		Extra-over items C1040 for (provisional):		
C1060		i) Material cost of new pavers not included in the Schedule of Rates (This Provisional Sum not to exceed R100 000 per Works Order)	Prov Sum	100 000.00
C1070		ii) Handling costs and profit for item C1060	%%
C1080	8.2.3	Cutting of blocks against edge restraints	m	
		LANDSCAPING		

SCHEDULE D: MEDIUM-PRESSURE PIPELINES

D1420		160 mm diam.	No.	
D1430		200 mm diam.	No.	
D1440		250 mm diam.	No.	
D1450		300 mm diam.	No.	
D1460		350 mm diam.	No.	
D1470		400 mm diam.	No.	
D1480		450 mm diam.	No.	
D1490		500 mm diam.	No.	
		22.5 deg		
D1500		75 mm diam.	No.	
D1501		90 mm diam.	No.	
D1510		110 mm diam.	No.	
D1520		160 mm diam.	No.	
D1530		200 mm diam.	No.	
D1540		250 mm diam.	No.	
D1550		300 mm diam.	No.	
D1560		350 mm diam.	No.	
D1570		400 mm diam.	No.	
D1580		450 mm diam.	No.	
D1590		500 mm diam.	No.	
		45 deg		
D1600		75 mm diam.	No.	
D1610		90 mm diam.	No.	
D1620		110 mm diam.	No.	
D1630		160 mm diam.	No.	

SCHEDULE D: MEDIUM-PRESSURE PIPELINES

D2270		90 mm diam.	No.	
D2280		110 mm diam.	No.	
D2290		160 mm diam.	No.	
D2300		200 mm diam.	No.	
D2310		250 mm diam.	No.	
D2320		300 mm diam.	No.	
D2330		350 mm diam.	No.	
D2340		400 mm diam.	No.	
D2350		450 mm diam.	No.	
D2360		500 mm diam.	No.	
		22.5 deg		
D2370		75 mm diam.	No.	
D2380		90 mm diam.	No.	
D2390		110 mm diam.	No.	
D2400		160 mm diam.	No.	
D2410		200 mm diam.	No.	
D2420		250 mm diam.	No.	
D2430		300 mm diam.	No.	
D2440		350 mm diam.	No.	
D2450		400 mm diam.	No.	
D2451		450 mm diam.	No.	
D2460		500 mm diam.	No.	
		45 deg		
D2470		75 mm diam.	No.	
D2480		90 mm diam.	No.	

SCHEDULE D: MEDIUM-PRESSURE PIPELINES

D12050		200mm or 250mm or 300mm in diameter	No.	
D12060		350mm or 400mm or 450mm in diameter	No.	
D12070		500mm in diameter	No.	
	PS-TD 5	Provision of Valve Extension Spindles		
D12080		500mm	No.	
D12090		750mm	No.	
D12100		1000mm	No.	
D12110		1250mm	No.	
D12120		1500mm	No.	
D12130		Remove all refuse, rubble, sand, building material, etc from the valve chamber in order to proceed with the removal of the valve	No.	
D12140		Pumping out water in valve chambers to maintain dry condition in valve chamber while work is in progress	No.	
D12150		Extra - over for removal and replacement of valve chamber top cover slab	No.	
		Raising of existing valve covers including top cover slab:		
D12160		80mm or 100mm or 150mm in diameter	No.	
D12170		200mm or 250mm or 300mm in diameter	No.	
D12180		350mm or 400mm or 450mm in diameter	No.	
D12190		500mm in diameter	No.	
D12200		Plaster and / or waterproof inside of valve chamber to prevent ground water seepage (infiltration)	m ²	
		Lowering of existing valve covers including top cover slab:		
D12201		80mm or 100mm or 150mm in diameter	No.	
D12202		200mm or 250mm or 300mm in diameter	No.	
D12203		350mm or 400mm or 450mm in diameter	No.	

D12204		500mm in diameter	No.	
D12205		Plaster and / or waterproof inside of valve chamber to prevent ground water seepage (infiltration)	m²	
		AIR VALVES		
		Supply Combination Air Valve (air release and vacuum breaker) Class 16 Flanged		
D12210		a) 25 mm diam.	No.	
D12220		b) 50 mm diam.	No.	

Work relating to dealing with traffic (or accommodation of traffic) is to be carried out in accordance with Accommodation of Traffic included in the Particular and Generic Specifications section. No separate measurement and payments for dealing with traffic is done in the Accommodation of Traffic Section. Payment will be included under Item E.15.01 (PSAA 5.1.7).

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|--|-----------------|
| (a) Point repair (Up to 15 meter) | Unit: No |
| (b) Point repair (Over 15m and up to 30 meter) | Unit: No |

The tendered sum for the above point repairs shall cover the all the costs of dealing with traffic for the point repair for up to the entire length as required and the maintenance until completion of the works.

PSAA 8.7.2 Existing services

PSAA 8.7.2.1 Location and protection of existing services:

Where particular items are provided in other sections of the bills the costs of detection, exposure, protection and alterations shall be covered by such particular items. Where no such particular items are provided and where there is reason to expect the presence of such a service or services, the following items will apply:

- | | |
|---|-------------------|
| (a) Supply or hire of specialist equipment for detection of existing services | Unit: Sum |
| (b) The use or hire of specialist equipment for detection | Unit: Hour |

The items shall cover the cost of providing and operating suitable equipment necessary in order to locate all existing services likely to be affected by the construction activities. Alternatively an approved specialist firm may be employed to carry out the work.

PSAA 8.7.3.2 Hand excavation necessary for locating and exposing existing services in all materials:

- | | |
|------------------------------|----------------------------|
| (a) In roadways | Unit: m³ |
| (b) In all other areas | Unit: m³ |

The rates shall cover the cost of excavating by means of hand tools within authorised dimensions, for all precautionary measures necessary to protect the services from damage during excavation and backfilling and for subsequent backfilling and compacting. Compaction of material in all areas except in roadways shall be to 93% of modified AASHTO density.

The rate for hand excavation in roadways shall also include compensation for compacting excavated or selected backfill material to 100% of modified AASHTO density. Reinstating layerworks and surfacing shall be measured and paid for under SANS 1200 DB.

The tendered rates shall also include for keeping excavations safe, for dealing with surface and subsurface water and for removal of surplus excavated material from the site."

PSAA 8.7.4 Dealing with water

- | | |
|--|------------------|
| (a) Dealing with subsurface water..... | Unit: Sum |
| (b) Dealing with surface water | Unit: Sum |
| (c) Extra-over for item (a) above: | |
| i) Installation of well points..... | Unit: m |
| ii) Operate and maintain..... | Unit: day |

The sum shall cover the cost for the provision, operation, maintaining and removal of all plant and materials required to deal with any water anywhere on the Site as required in terms of Subclause 5.1.3 of SANS 1200 D and Subclause 5.1.2 of SANS 1200 DB. No additional payment will be made for "Special water hazards".

The sum and items shall cover the cost of providing the necessary plant or materials, or both, fully erected and operative on the Site, the cost of supplying, operating and maintaining pumps, well points, and other equipment, as applicable, for 24 hours a day, 7 days a week, throughout the period during which the facilities are required, and the cost of removing such goods and restoring the Site to its original condition on completion of that part of the project for which the temporary works were erected. (Layerworks and final reinstatement are measured separately).

PSAA 8.7.5 Watching, lighting and temporary fencing

PS-TD SPECIFICATION FOR THE REMOVAL AND REPLACEMENT OF VALVES

PS-TD 1 Installation of new valve

Unit: No

The schedule price for the installation of a valve on an existing pipe line must include the cutting into existing pipe, installation of the valve (valve priced separately), trimming of pipe ends and the fitting of couplings, testing of the valve, removal and disposal of surplus soil, making good the surrounding surface area, and any incidentals required to complete the work.

Working with asbestos cement can present hazardous conditions and the Asbestos Regulation 2020 shall apply. See applicable clauses in tender.

PS-TD 2 Removal of existing valve and return valve to depot

Unit: No

The Contractor will be required to remove the old or defective valve.

The schedule price for the replacement of a valve shall cover the cost of isolate the water line, expose the valve, two pipe cuts if required, removal of old or defective valve and return the valve to the depot upon instruction of the Employers Agent. The installation of the new valve will be priced separately.

Working with asbestos cement can present hazardous conditions and the Asbestos Regulation 2020 shall apply. See applicable clauses in tender.

PS-TD 3 Construction of valve chamber boxes

In addition to the existing clauses the following shall apply:

On completion and testing of the work the lower part of each valve body must be surrounded by a properly consolidated granular fill.

Chamber walls shall consist of brickwork or precast concrete tongued and grooved components as indicated on Drawings No. W1, W3-AV-001 and W4-V-001 and building in accordance of the specific drawing as instructed.

Each chamber is to be closed with the appropriate polymer concrete or ductile iron surface box or manhole cover as specified, set in cement mortar to the correct line and slope of the surrounding surface, except where otherwise indicated.

PS-TD 4 Repack gland and operate valve

Unit: No

The price tendered and the price paid for each valve operated and gland repacked during normal working hours 08:00 hours and 16:30 hours Monday to Friday inclusive, shall include full compensation for transport, supervision, labour, plant and equipment and all incidentals necessary for the completion of the work.

PS-TD 5 Provision of Valve Extension Spindles

Unit: No

The price tendered should include the supply of the Valve Extension Spindles as per the various lengths in the Schedule of Rates. The mild steel valve extension spindle shall be hot dipped galvanized and coated externally with Carboline 891 or equivalent (3 coats, minimum 125 microns/coat).