

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	PART 1 SANS 1200 A	PRELIMINARY & GENERAL				
1,3	PSA - 8.5	Sums Stated Provisionally by Engineer				
	(PSA)	(c) Additional tests				
1.3.1		(1) Additional tests ordered by the Engineer	Prov Sum	1	R 50 000,00	R 50 000,00
1.3.2		(2) Handling of costs and charges on (c)(1)	%	50 000		
1,4	8,8	TEMPORARY WORKS				
1.4.1	PSA-8.8.2	Dealing with Traffic	Sum	1		
1,5	PS-10	OHS&A REQUIREMENTS				
		Compliance with the Occupational Health and Safety Act (Act 85 of 1993) and the relevant Regulations and Construction Regulations and the Employer's Health and Safety Specification				
1.5.1		Additional over 1.5.1 for the items below:	Sum	1		
1.5.2		Training of site personnel	Sum	1		
1.5.3		SHE representative	Sum	1		
1.5.4		First aid equipment	Sum	1		
1.5.5		Fire fighting equipment	Sum	1		
1.5.6		Personal protective clothing	Sum	1		
1.5.7		Barricading	Sum	1		
1.5.8		Signs	Sum	1		
1.5.9		Medical surveillance tests	Sum	1		
		DAYWORK SCHEDULE				
1,6		<i>Labour</i>				
1.6.1		a) Unskilled workers	hr			Rate Only
1.6.2		b) Skilled workers (Artisans)	hr			Rate Only
1.6.3		c) Operators and drivers	hr			Rate Only
1.6.4		d) Foremen	hr			Rate Only
1.6.5		e) Surveyor (including instruments and transport)	hr			Rate Only
1,7		<i>Construction Plant</i>				
1.7.1		m) Lowbed transport of plant to and from the site	t.km			Rate Only
1.7.2		p) Front-end loaders - 85kW, 11 ton mass	hr			Rate Only
1.7.3		q) Back-acting excavators - 100 kW, 21 ton mass	hr			Rate Only
1.7.4		t) Vibratory roller, self propelled - 90kW, 10 ton mass	hr			Rate Only
1.7.5		v) Trucks - 10m ³ (Double Diff)	hr			Rate Only
1.7.6		x) Tractor Loader Backhoe (4x4) 56 kW	hr			Rate Only
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2		PART 2: SEWER RETICULATION				
2.1	SANS	SECTION: EARTHWORKS (PIPE TRENCHES)				
	1200 DB					
	8.3.1	Site Clearance and removal of topsoil				
2.1.1		(a) Clear Vegetation and trees of girth up to 1m (strip 3m wide)	m	150,00		
	8.3.2	Excavation				
	(PSDB)	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material				
		(1) Up to 160 mm dia pipes for depths				
		Over and up to				
2.1.2		(i) 0,0 m 2 m	m	150,00		
		(b) Extra-over item (a) above for :				
2.1.3		(1) Intermediate excavation	m³	16,25		
2.1.4		(2) Hard rock excavation	m³	11,25		
2.1.5		(c) Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	12,50		
	(PSDB)	(d) Extra-over item 8.3.2 (a) above for hand excavation.				
		(1) Up to 160 mm dia pipes for depths				
		Over and up to				
2.1.5		(i) 1,0 m 2 m	m	25,00		
2.1.6	(PSDB)	(e) Extra over (c) above for hardcore filling of 38 mm crushed stone to trench bottom.	m³	12,50		
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.2	SANS □ 1200 LB	SECTION : BEDDING (PIPES				
	8.2.1	Provision of bedding from trench excavation				
2.2.1		(b) Selected fill material	m³	75,00		
	8.2.2	Supply only of bedding by importation				
	8.2.2.3	From commercial sources (provisional)				
2.2.2		(a) Selected granular material	m³	50,00		
2.2.3		(b) Selected fill material	m³	25,00		
2.2.4	8.2.3	Concrete bedding cradle of class 20 MPa/13 mm concrete (provisional)	m³	2,50		
2.2.5	(PSLB)	Screening of selected bedding material	m³	7,00		
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.3	SANS 1200LD	SECTION : SEWERS				
	8.2.1	Supply, lay, joint, bed and test pipelines (a) Maincore 400 kPa uPvc solid wall sewer pipes on Class B Bedding or approved similar□				
2.3.1		(1) 110 mm dia	m	150,00		
		(2) 160 mm dia	m	100,00		
	8.2.3	Manholes				
	(PSLD)	Manholes as per detailed drawings with Type 2A cast iron frame and concrete cover: (a) 1000 mm dia chamber for depths: Over and up to				
2.3.2		(i) 1,0 m 2,0 m	No	5,00		
	8.2.6	Building connection 110mm dia. complete inclusive of access junction and Permanent plug stoppers as detailed on drawings (a) Type 1: for depths: Over and upto				
2.3.3		(i) 1,0 m 2,0 m	No	4,00		
		(a) Type 2: for depths: Over and upto				
2.3.4		(i) 1,0 m 2,0 m	No	4,00		
	8.2.7	Encasing of pipes in grade 20 MPa/13 mm concrete (provisional)				
2.3.5		(a) 110 mm dia pipes	m³	2,00		
2.3.6	8.2.8	Anchor blocks, concrete mix 20 MPa□ (inclusive of formwork)□	m³	2,00		
	8.2.13	Septic Tanks				
2.3.7	(PSLD)	(a) Construct 5 m³ septic tank complete as indicated on the drawings including excavation, backfilling, fittings, pipework, manholes cover and frames etc.	No	0,00		
		(b) Construct 12 m³ septic tank complete as indicated on the drawings including excavation, backfilling, fittings, pipework, manholes cover and frames etc.	No	0,00		

	8.2.14	(c) Construct 15 m ³ septic tank complete as indicated on the drawings including excavation, backfilling, fittings, pipework, manholes cover and frames etc. <u>Soak field</u>	No	1,00		
	(PSLD)	(a) Construct soak field complete as detailed on the drawings including excavation, slotted uPvc pipework, backfilling with cobble stones etc	No	1,00		
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
		PART 3 : WATER SUPPLY				
		SECTION: EARTHWORKS (PIPE TRENCHES)				
1,1	SABS 1200DB					
	8.3.1	Site Clearance and removal of topsoil				
1.1.1		(a) Clear Vegetation and trees of girth up to 1m, strip 3m wide.	m	950,00		
	8.3.2	Excavation				
	(PSDB)	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material				
		(1) Up to 200 mm dia pipes for depths				
		Over and up to				
1.1.2		(i) 1,0 m 1,5 m	m	950,00		
	(PSDB)	(b) Extra-over item (a) above for:				
1.1.3		(2) hard rock excavation	m³	95,00		
1.1.4	(PSDB)	(e) Extra over item 8.3.2 for excavation by hand in all materials adjacent to existing services, including backfilling and/or disposal of surplus material (all depths)	m³	4,00		
	8.3.3	Excavation ancillaries				
1.1.5	8.3.3.3	Compaction in road reserves and street crossings	m³	35,00		
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
2,1	SABS 1200 L	SECTION: MEDIUM-PRESSURE PIPELINES				
	8.2.1	Supply, handle, lay, cut, joint and bed pipes on Class C bedding, disinfect and test:				
	(PSL)	(a) uPVC pressure pipes with "Lyng" joints or similar approved (provisional)				
2.1.1		(i) 110 mm dia Class 12	m	950,00		
		(b) HDPE PE 100 PN 10 with compression fittings or similar approved				
2.1.2		(i) 25 mm dia	m	-	-	
2.1.3		(ii) 75 mm dia	m			
	8.2.2	Extra-over 8.2.1 for the supplying, laying on Class C bedding of specials complete with couplings (provisional)				
	(PSL)	(a) Bends CI Class 16 for uPVC pressure pipes				
2.1.4		(1) 25 mm dia 90 degree	No	-	-	
2.1.5		(2) 50 mm dia 11.25 degree	No	-	-	
2.1.6		(3) 50 mm dia 22.5 degree	No	-	-	
2.1.7		(4) 50 mm dia 45 degree	No	-	-	
2.1.8		(5) 50 mm dia 90 degree	No	-	-	
		(b) Cast iron tees				
2.1.9		(1) 110 mm x 110 mm dia	No	4,00		
2.1.10		(2) 160 mm x 110 mm dia	No	-	-	
2.1.11		(3) 160 mm x 160 mm dia	No	-	-	
		(c) Steel tees				
2.1.12		(1) 150 x 150 mm dia plain ended flanged t-end	No	-	-	
		(d) Viking Johnson Couplings				
2.1.13		(1) 150 mm dia	No	-	-	
		(e) Cast iron hydrant tees				
2.1.14		(i) 110 mm dia	No	2,00		
		(f) Cast iron flanged adaptor				
2.1.15		(i) 50 mm dia	No	-	-	
TOTAL CARRIED FORWARD						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD						
2.1.16		(ii) 110 mm dia	No	4,00		
2.1.17		(iii) 160 mm dia	No	-	-	
		(g) Cast iron reducers				
2.1.18		(i) 160 mm x 110 mm dia	No	-	-	
2.1.19		(ii) 110 mm x 50 mm dia	No	-	-	
		(h) Steel puddle pipe 1 m long flanged				
2.1.20		(1) 50 mm dia	No	-	-	
2.1.21		(2) 100 mm dia	No	-	-	
		(j) Blank flange steel				
2.1.22		(1) 50 mm dia	No	-	-	
2.1.23		(2) 100 mm dia	No	-	-	
		(k) Cast Iron End Caps				
2.1.24		(i) 110 mm dia	No	2,00		
	8.2.3	Extra-over 8.2.1 for the supplying, fixing, and bedding of valves				
	(PSL)	(a) Class 16, waterworks type gate valves to SABS 664, cap top, non- rising spindle, Clockwise closing				
2.1.25		(i) 50 mm dia	No	-	-	
2.1.26		(ii) 100 mm dia	No	10,00		
2.1.27		(iii) 150 mm dia	No	-	-	
2.1.28		(d) Hydrant valve, complete installation as shown on the drawings and to local council standards	No	2,00		
	8.2.11	Anchor/thrust blocks and pedestals				
2.1.29		(b) Grade 15 MPa/19 mm concrete in small quantities to thrust and anchor blocks including shuttering	m ³	4,00		
2.1.30	8.2.12	Concrete casing of pipes with class 20 MPa/19 mm concrete all diameters (provisional)	m ³	4,00		
TOTAL CARRIED FORWARD						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
BROUGHT FORWARD						
2.1.31	8.2.13 (PSL)	Valve chambers, and manholes complete as detailed on the drawings etc. (a) Valve chamber for valves 50 mm up to 200 mm diameter complete as detailed on the drawings	No	10,00		
2.1.32	8.2.15 (PSL)	Special wrapping flanges, pipe fittings and couplings in corrosive soil as specified in PSL-3.9.6 (provisional quantity)	No	16,00		
	PSL-8.2.16	Borehole Flashing of existing borehole and installation of pumps (b) Handling charges and profit on (a) above	Prov Sum %		R 50 000,00	R 50 000,00
	PSL-8.2.16	Steel water tank (a) Elevated Tank size 3.66m * 3.66m * 2.44m (30m ³) on a steel tank 10m high stand supported by a concrete base and plinths with super laykold lining complete as indicated on the drawings	No	1,00		
	PSL-8.2.17	Water Booster and Fire Pump Sets Complete installation of booster pump sets by a selected subcontractor (a) Install water booster and fire pump sets, inclusive of all pumps, valves, piping, controls and electrical installation (b) Handling charges and profit on (a) above	Prov Sum %		R 50 000,00	R 50 000,00
	PSL-8.2.18	Fire Hose Cabinet (a) Steel weather proof fire hose cabinet containing 3 lengths of 65 mm 30 m long fire hose (rolled), AWG hand controlled branch pipe with jet/spray/on-off setting	No	-	-	-
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
3,1	SABS 1200 LB	SECTION: BEDDING (PIPES)				
	8.2.1	Provision of bedding from trench excavation				
3.1.1		(b) Selected fill material	m³	316,67		
	8.2.2	Supply only of bedding by importation				
	8.2.2.3	From commercial sources (provisional)				
3.1.2		(b) Selected fill material	m³	60,00		
3.1.3	8.2.3	Concrete bedding cradle of class 20 Mpa /13mm concrete (provisional)	m³	4,00		
3.1.4	PSLB	Screening of selected bedding material	m³	240,00		
TOTAL CARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
17,00	CLEARING AND GRUBBING				
17,01	Clearing and grubbing	m ²	2000,00		
17,02	Removing and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1m up to and including 2m	No	6,00		
	(b) Girth exceeding 2m up to and including 3m	No	4,00		
17,03	Re-clearing of surfaces (on the written instructions of the Engineer only)	m ²	20,00		
TOTAL CARRIED FORWARD TO SUMMARY					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
21,00	DRAINS				
21,01	Excavation for open drains:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	45,00		
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	4,50		
TOTAL CARRIED FORWARD TO SUMMARY					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
22,00	PREFABRICATED CULVERTS				
22,01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	35,00		
	(ii) Exceeding 1,5 m and up to 3,0 m	m ³	720,00		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	120,00		
22,02	Backfilling:				
	(a) Using the excavated material	m ³	21,00		
	(b) Using imported selected material	m ³	4,20		
	(c) Extra over subitems 22.02(a) and (b) for soil cement backfilling with 5% cement of the dry mass	m ³	10,00		
22,03	(1) 450 mm dia class 100D concrete pipe culvert on class B bedding	m	300,00		
	(1) 600 mm dia class 100D concrete pipe culvert on class B bedding	m	-	-	-
	(2) 750 mm dia class 100D concrete pipe culvert on class B bedding	m	-	-	-
22,07	Cast in situ concrete and formwork				
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface:				
	(i) Class 25/19 concrete	m ³	15,00		
	(d) Formwork of concrete under subitem 22.07 (c) above				
	(i) Vertical formwork for F1 surface finish	m ²	45,00		
	(ii) Vertical formwork for F2 surface finish	m ²	85,00		
	(iii) Horizontal formwork for F2 surface finish	m ²	20,00		
22,10	Steel Reinforcement				
	© Welded Mesh (292 Ref)	kg	200,00		
22,18	Brickwork:				
	b) 230 mm thick	m ²	20,00		
	(c) 345 mm thick	m ²	30,00		
22,19	Plaster	m ²	50,00		
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
23,00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23,01	Concrete kerbing				
	(a) Precast kerbing to SABS 927				
	(2) Figure 8B (Mountable)	m	400,00		
TOTAL CARRIED FORWARD TO SUMMARY					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
31,00	BORROW MATERIALS				
31,01	Excess overburden	m ³	75,00		
31,03	Finishing-off borrow areas in:				
	(a) Hard material	ha	0,20		
	(b) Intermediate material	ha	0,30		
	(c) Soft material	ha	0,40		
B31.03	Fencing-off of borow pits (stockproof fence) including provision of gates and all warning signs	Sum	1,00		
B31.04	(a) Allow a Prime Cost Sum as compensation to owner/authority for royalties for land used for gravel borrowpits	PC Sum	1,00	25000,00	R 25 000,00
B31.04	(b) Handling costs and profit in respect of subitem B31.04(a) above	%	25000,00		
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
33,00	MASS EARTHWORKS				
33,01	Cut and borrow to fill, including free-haul up to 0.5km				
	(a) Gravel material in compacted layer thickness of 200 mm and less:				
	(1) Material obtained from cut in the road prism and road prism road reserve, platforms and borrow areas;				
	(i) Compacted to 93% of modified AASHTO density	m ³	350,00		
	(c) Rock fill (as specified in subclause 3209(c))	m ³	30,00		Rate Only
	(d) Toes for rock fill embankments (as specified in subclause 3307(h))	m ³	15,00		Rate Only
	(e) Pioneer layer (as specified in Subclause 3307(c))	m ³	15,00		Rate Only
33,03	Extra over item 33.01 for excavating and breaking down material in:				
	(a) Intermediate excavation	m ³			Rate Only
	(b) Hard excavation	m ³	15,00		Rate Only
	(c) Boulder excavation class A	m ³	10,00		Rate Only
	(d) Boulder excavation class B	m ³	15,00		Rate Only
33,04	Cut to spoil, including free-haul up to 0,5 km. Material obtained from:				
	(a) Soft excavation	m ³	720,00		
	(b) Intermediate excavation	m ³	150,00		
	(c) Hard excavation	m ³	72,00		
	(d) Boulder excavation class A	m ³	4,00		
	(e) Boulder excavation class B	m ³	3,00		
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
34,00	PAVEMENT LAYERS OF GRAVEL MATERIAL				
34,01	Pavement layers constructed from gravel taken from cut or borrow, including free haul up to 1,0km				
	(a) 150 mm Roadbed layer compacted to:				
	(1) 90% of modified AASHTO density	m ³	1580,00		
	(b) 150mm Subbase(Gravel)				
	(1) 93% of modified AASHTO density	m ³	1580,00		
	(f) 150mm Gravel base (stabilized gravel) compacted to:				
	(1) 97% of modified AASHTO density	m ³	360,00		
34/16.00	Overhaul				
34/16.01	Overhaul on material hauled in excess of a free-haul distance of 0.5km, for haul up to or through 1.0km (restricted overhaul)	m ³	194,00		
34/16.02	Overhaul on material hauled in excess of 1.0km (ordinary overhaul)	m ³ -km	19400,00		
34/32.04	Removal of oversize pavement material	m ³	30,00		
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
35,00	STABILIZATION				
35,01	Chemical stabilization extra over unstabilized compacted layers				
	(a) 150mm Base	m ³	360,00		
35,02	Chemical stabilizing agent:				
	(a) Ordinary portland cement CEM 42.5	t	16,00		
35,04	Provision and application of water for curing	kl	27,00		
TOTAL CARRIED FORWARD TO SUMMARY					
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
41,00	PRIME COAT				
41,01	Prime coat:				
	(c) MC-30 cut-back bitumen	litre			Rate only
41,03	Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre			Rate only
41/45.00	Asphalt				
	(a) 30mm Asphalt	m ²			Rate only
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
51,00	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION				
51,04	Block paving (d) Prefabricated concrete paving blocks for side walks Construct paving complete with 80mm class 25, Type S-A concrete blocks including 20mm sand and cutting to fit edge, rolling to lockup and ant poison and weed killer				
51,05	(1) 60 mm thick (1) 80 mm thick Cast in situ concrete edge beams, class 25/19 concrete (Formwork and clause U2 surface finish included)	m ² m ²	200,00		
	(1) 300mm x 200mm (2) 300mm x 300mm	m m	100,00		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					R -

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
57,00	ROAD MARKINGS				
57,02	Retro-reflective road marking paint: (a) White lines (broken or unbroken) (1) 100 mm wide	km	1,00		Rate Only
	(b) Yellow lines (broken or unbroken) (1) 100 mm wide	km	1,00		Rate Only
	(d) White lettering and symbols	m ²	1,00		Rate Only
	(e) Yellow lettering and symbols	m ²	1,00		Rate Only
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m ²	1,00		Rate Only
57,06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	1,00		Rate Only
57,07	Re-establishing the painting unit at the end of the maintenance period	Lump Sum	1,00		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59,00	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
59,01	Finishing the road and road reserve: (b) Single carriageway road	km	0,40		
59,02	Treatment of old roads and temporary deviations	km	1,10		Rate Only
TOTAL CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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73,00	CONCRETE BLOCK PAVING FOR ROADS				
73,01	Concrete block paving (a) Prefabricated concrete paving blocks for roads (1) 60 mm thick TYPE S-C 25MPa	m ²	2000,00		
73,04	Provide Edge beam on walkway (pre-cast 60x65x100)	m	50,00		
73,05	Provision of approved herbicide and ant poison a) Provision of materials	sum	1,00	R 20 000,00	R 20 000,00
	b) Contractors charges and profit added to the prime cost sum	%	20000,00		
TOTAL CARRIED FORWARD TO SUMMARY					
SUMMARY					
1700	CLEARING AND GRUBBING				
2100	DRAINS				
2200	PREFABRICATED CULVERTS				
2300	CONCRETE CHANNELLING				
3100	BORROW MATERIALS				
3300	MASS EARTHWORK				
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
3500	STABILIZATION				
4100	PRIME COAT				
5100	PITCHING, STONWORK AND PROTECTION AGAINST EROSION				
5700	ROAD MARKINGS				
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS				
7300	CONCRETE BLOCK PAVING FOR ROADS				
TOTAL SCHEDULE A: ROAD CONSTRUCTION					

NYLSVLEI NATURE RESERVE

SUMMARY

SANS 1200 REF	DESCRIPTION	AMOUNT
A	PART 1: GENERAL	
	TOTAL PART 1 CARRIED TO GRAND SUMMARY	
	<u>PART 2: SEWER RETICULATION</u>	
DB	EARTHWORKS (PIPE TRENCHES)	
LB	BEDDING (PIPES)	
LD	SEWERS	
	TOTAL PART 2 CARRIED TO GRAND SUMMARY	
	<u>PART 3: WATER SUPPLY</u>	
DB	EARTHWORKS (PIPE TRENCHES)	
L	MEDIUM-PRESSURE PIPELINES	
LB	BEDDING (PIPES)	
	TOTAL PART 3 CARRIED TO GRAND SUMMARY	
	<u>PART 4: ROADS & EARTHWORKS</u>	
1700	CLEARING AND GRUBBING	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE CHANNELLING	
3100	BORROW MATERIALS	
3300	MASS EARTHWORK	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
3600	PRIME COAT	
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
7300	CONCRETE BLOCK PAVING FOR ROADS	-
	TOTAL PART 4 CARRIED TO GRAND SUMMARY	

GRAND SUMMARY

PART 1: GENERAL

PART 2: SEWER RETICULATION

PART 3: WATER SUPPLY AND STORAGE

PART 4: ROADS & EARTHWORKS

SUBTOTAL A

ADD 10% CONTIGENCIES

SUBTOTAL B

ADD 15% VALUE ADDED TAX

CONSTRUCTION AMOUNT