

**SUMMARY OF BILL OF QUANTITIES****Section**

<b>1</b>	<b>PRELIMINARY AND GENERAL ITEMS</b>		<b>R</b> _____
0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	R	_____
0103	C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND	R	_____
0104	C1.4 FACILITIES FOR THE ENGINEER	R	_____
0105	C1.5 ACCOMMODATION OF TRAFFIC	R	_____
<b>2</b>	<b>DAY WORKS</b>		<b>R</b> _____
0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	R	_____
<b>3</b>	<b>SITE CLEARANCE</b>		<b>R</b> _____
0106	C1.6 CLEARING AND GRUBBING	R	_____
0107	C1.7 LOADING AND HAULING	R	_____
<b>4</b>	<b>SERVICES</b>		<b>R</b> _____
0201	C2.1 GEN REQMENTS AND TRENCHING SERVICE	R	_____
<b>5</b>	<b>DRAINAGE</b>		<b>R</b> _____
0302	C3.2 CULVERTS	R	_____
<b>6</b>	<b>EARTHWORKS</b>		<b>R</b> _____
0402	C4.2 CUT MATERIALS	R	_____
0403	C4.3 EXISTING ROAD MATERIALS	R	_____
0404	C4.4 COMMERCIAL MATERIALS	R	_____
0502	C5.2 FILL	R	_____
<b>7</b>	<b>LAYERWORKS</b>		<b>R</b> _____
0404	C4.4 COMMERCIAL MATERIALS	R	_____
0501	C5.1 ROADBED	R	_____
0503	C5.3 ROAD PAVEMENT LAYERS	R	_____
0901	C9.1 ASPHALT LAYERS	R	_____
<b>8</b>	<b>ANCILLARY ROAD WORKS</b>		<b>R</b> _____
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1108	C11.8 LANDSCAPING AND PLANTING PLANTS	R	_____
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<b>9</b>	<b>RETAINING WALLS</b>		<b>R</b> _____
1206	C12.6 MECH STABILISED FILL AND GABIONS	R	_____
<b>SUB TOTAL</b>			<b>R</b> _____
<b>ADD VAT (15%) - (only if a registered VAT Vendor)</b>			<b>R</b> _____
<b>TOTAL CARRIED TO FORM OF TENDER</b>			<b>R</b> _____

**BILL OF QUANTITIES****SECTION 1 PRELIMINARY AND GENERAL ITEMS****PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
		<b><u>Environmental Management</u></b>				
1	C1.2.1.1 PS.C1.2.1.1	Monitoring of compliance with and reporting on the EMP	months	5		
2	C1.2.1.2 PS.C1.2.1.2	Dedicated environmental officer	months	5		
		<b><u>Programming and Reporting</u></b>				
3	C1.2.2.3 PS.1.1 PS.C1.2.2.3	Submission of a Scheme 2 Initial Programme	Lump sum	1		
4	C1.2.2.4 PS.C1.2.2.3	Submission of a Scheme 2 Full Programme	Lump sum	1		
5	C1.2.2.5 PS.C1.2.2.5	Reviewing and updating a Scheme 2 programme every month	months	5		
		<b><u>Other Documentation</u></b>				
6	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation, including reporting on local labour	months	5		
		<b><u>Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours</u></b>				
7	C1.2.3.1	Grass cutting	ha	0.8		
8	C1.2.3.4	Collection of rubbish / litter	km	0.8		
		<b><u>Stakeholder Management &amp; Liaison</u></b>				
9	C1.2.4 PS.24	Stakeholder Management and Liaison	months	5		
		<b><u>Health and Safety</u></b>				
10	C1.2.5.1 PS.10	Health and safety plan	Lump sum	1		
11	C1.2.5.2 PS.10	Implementation of health and safety plan	months	5		
12	C1.2.6.1	Work adjacent to properties: Survey of adjacent properties	no	8		
13	C1.2.6.2	Preventive and/or mitigation measures	PC Sum	25000	1.00	25 000.00
14	C1.2.6.3	Handling cost, profit and all other charges in respect of item C1.2.6.2	%	25000		
		<b><u>Community Liaison Officer</u></b>				
15	PS.25	Allow for CLO to be appointed	PC Sum	110000	1.00	110 000.00

**PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_ OUTER WEST****Part Continued PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
16	PS.25	Handling costs and profit in respect of PS.25	%	110000		
		<u>Additional Security</u>				
17	PS.11	Provision of security on site to guard against any disruption of the works throughout the duration of the contract	months	5		

**TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS****R****PART 0103 C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>The Contractor's General Obligations</u>				
1	C1.3.1.1 PS.C1.3.1	Fixed obligations	Lump sum	1		
2	C1.3.1.2 PS.C1.3.1	Value-related obligations	Lump sum	1		
3	C1.3.1.3 PS.C1.3.1	Time-related obligations	months	5		
4	C1.3.2 PS.C1.3.2	Contract sign boards (as per drawing)	no.	1		
5	PS.17	Submission of As-Built Data	sum	1		

**TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS****R****PART 0104 C1.4 FACILITIES FOR THE ENGINEER**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Services at Site Offices, Laboratories and Site Accommodation</u>				
1	PS.19	Allowance for Progress Photographs every month, digital and aerial	PC Sum	50000	1.00	50 000.00
2	PS.19	Handling costs and profit in respect of item above	%	50000		
3	PS.21	Allowance for the additional survey required by the Engineer	PC Sum	30000	1.00	30 000.00
4	PS.21	Handling costs in respect of item above	%	30000		
5	PS.23	Allowance for Laboratory Acceptance testing as required by the Engineer	PC Sum	25000	1.00	25 000.00
6	PS.23	Handling costs in respect of item above	%	25000		

**TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS****R****PART 0105 C1.5 ACCOMMODATION OF TRAFFIC**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.5.1.1 PS.1.3	Accommodation of pedestrian and non-motorised traffic	months	5		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST

Part Continued PART 0105 C1.5 ACCOMMODATION OF TRAFFIC

Item	Clause	Description	Unit	Quantity	Rate	Amount
2	C1.5.2 PS.1.3	Accommodation of vehicular traffic	months	5		
		<u>Temporary Traffic Control Facilities</u>				
3	C1.5.7.1(a)	Delineators including mounting bases and ballast: Single sided, reversible left or right (1200mm x 250mm)	no	20		
4	C1.5.7.1(b)	Delineators including mounting bases and ballast: Double sided, reversible left or right (1200mm x 250mm)	no	20		
5	C1.5.7.3	Flagmen	man-day	220		
6	C1.5.7.4	Traffic controllers	man-day	110		
7	C1.5.7.5 (c)	(c) Illuminated road sign – R & TR series (900mm)	no	8		
8	C1.5.7.9	Cleaning of traffic control facilities	months	5		
9	C1.5.8 PS.1.3.4	Traffic safety officer	months	5		
		<u>Traffic Safety Officer: Penalties</u>				
10	A1.5.3.7 PS.1.4	(a) Fixed Penalty per occurrence, R2000 per day	RateOnly	0		RATE ONLY
11	A1.5.3.7 PS.1.4	(b) Time-Related Penalty, R1000 per hour	RateOnly	0		RATE ONLY
12	C1.5.7.2	Traffic cones, minimum height 750 mm	no	10		
		<u>Provision of Safety Equipment for Visitors</u>				
13	C1.5.11.1	Provision of reflective safety vests for visitors	no	5		
14	C1.5.11.2	Provision of hard hats for visitors	no	5		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL ITEMS

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 1    PRELIMINARY AND GENERAL ITEMS**

PART 0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	
PART 0103	C1.3 CONTRACTOR'S SITE ESTABLISHMENT AND	
PART 0104	C1.4 FACILITIES FOR THE ENGINEER	
PART 0105	C1.5 ACCOMMODATION OF TRAFFIC	
TOTAL CARRIED TO FINAL SUMMARY		

**PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST**

**SECTION 2 DAY WORKS**

**PART 0102 C1.2 GENERAL REQUIREMENTS AND PROVISIONS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	C1.2.8.1(a)	Personnel: (a) Unskilled labourer	hour	10		
2	C1.2.8.1(b)	Personnel: (b) Semi-skilled labourer	hour	10		
3	C1.2.8.1 (c)	Personnel: (c) Skilled labourer	hour	10		
4	C1.2.8.2€	Construction equipment : (e) Tractor loader backhoe	hour	10		
5	C1.2.8.4(a)	Materials - Procurement of materials	PC Sum	25000	1.00	25 000.00
6	C1.2.8.4(b)	(b) Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	%	25000		

**TOTAL CARRIED TO SECTION 2 SUMMARY: DAY WORKS**

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 2 DAY WORKS**

PART 0102	C1.2 GENERAL REQUIREMENTS AND PROVISIONS	
TOTAL CARRIED TO FINAL SUMMARY		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_ OUTER WEST

**SECTION 3 SITE CLEARANCE****PART 0106 C1.6 CLEARING AND GRUBBING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b>Clearing</b>				
1	C1.6.1.1	Clearing with machines and some hand labour where necessary	ha	0.7		
2	C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified	ha	0.15		
		<b>Grubbing</b>				
3	C1.6.2.1	Grubbing with machines and some hand labour where necessary	ha	0.7		
4	C1.6.2.2	Grubbing with hand labour when labour enhancement work is specified or it is not practical to use a machine	ha	0.15		
		<b>Removal</b>				
5	C1.6.4.1 PS.C1.4.6.1.1	Removal of Structures : Existing concrete driveways between 100-150mm thick	m3	5		

TOTAL CARRIED TO SECTION 3 SUMMARY: SITE CLEARANCE

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**PART 0107 C1.7 LOADING AND HAULING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b>Loading</b>				
1	C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m3	820		
		<b>Hauling material for use in the Works</b>				
2	C1.7.2.1(a)	Hauling material for use in the Works and off-loading it on the site of the Works: (a) Soil, gravel, crushed stone and pavement layer material	m3 * km	100		
		<b>Hauling material to spoil</b>				
3	C1.7.2.2(a) PS.C1.7.2.2	Hauling material to spoil in sites designated by the Contractor: (a) Cleared and grubbed material (organic matter and all other unsuitable or waste material)	m3	50		
4	C1.7.2.2(b) PS.C1.7.2.2	Hauling material to spoil in sites designated by the Contractor: (b) Soil and gravel material	m3	620		

**PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST**

Part Continued **PART** 0107 C1.7 LOADING AND HAULING

Item	Clause	Description	Unit	Quantity	Rate	Amount
5	C1.7.2.2( c) PS.C1.7.2.2	Hauling material to spoil in sites designated by the Contractor: (c) Boulders and hard material	m3	50		

**TOTAL CARRIED TO SECTION 3 SUMMARY: SITE CLEARANCE**

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 3 SITE CLEARANCE**

PART 0106	C1.6 CLEARING AND GRUBBING	
PART 0107	C1.7 LOADING AND HAULING	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 4 SERVICES****PART 0201 C2.1 GEN REQMENTS AND TRENCHING SERVICE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Location, Identification, Protection and Relocation of Existing Services</u>				
1	C2.1.1.1	Contractor's obligation	Lump sum	1		
		<u>Relocation of Services by Others:</u>				
		<u>Water</u>				
2	C2.1.1.2 PS.3	Permanent services relocation or protection work by others: Water	PC Sum	75000	1.00	75 000.00
3	C2.1.1.3 PS.3	Handling costs and profit in respect of item C2.1.1.2 above	%	75000		
		<u>Electricity</u>				
4	C2.1.1.2 PS.6	Permanent services relocation or protection work by others: Electricity	PC Sum	50000	1.00	50 000.00
5	C2.1.1.3 PS.6	Handling costs and profit in respect of item C2.1.1.2 above	%	50000		
		<u>Proving By Hand</u>				
6	C2.1.2.5 PS.2.2	Using hand excavation to locate, expose and verify services, Depth of 0.0m to 1.5m. (Prov)	m3	100		
7	C2.1.2.5 PS.2.2	Using hand excavation to locate, expose and verify services, Depth of 1.5m to 2.0m (Prov)	m3	40		
8	C2.1.19.1	Dealing with surface water	Lump sum	1		
9	C2.1.19.2	Dealing with subsurface water	Lump sum	1		

**TOTAL CARRIED TO SECTION 4 SUMMARY: SERVICES****R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 4 SERVICES**

PART 0201	C2.1 GEN REQMENTS AND TRENCHING SERVICE	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 5 DRAINAGE****PART 0302 C3.2 CULVERTS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS..26	<u>Driveways</u> Construction of affected driveways to original or better condition, including excavation, subbase preparation, supply and compaction of granular base material, weedkiller application, provision and fixing of shuttering, formwork, expansion joints, and reinforcing mesh (Ref 193). Driveway to be constructed using 100mm thick concrete, 3.0m wide, with a 150mm–250mm raised concrete lip above final road level to facilitate road surface drainage	no	8		

TOTAL CARRIED TO SECTION 5 SUMMARY: DRAINAGE

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 5 DRAINAGE**

PART 0302	C3.2 CULVERTS	
TOTAL CARRIED TO FINAL SUMMARY		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST

**SECTION 6 EARTHWORKS****PART 0402 C4.2 CUT MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Excavation to Stockpile or Fill</u></b>				
1	C4.2.3.1 PS.C4.2	Excavating of materials in cuttings for use in the works, material obtained from: Soft excavation	m3	390		
2	C4.2.3.4 PS.C4.2	Excavating of materials in cuttings for use in the works, material obtained from: Hard excavation (other than by blasting)	m3	50		
3	C4.2.4.1 PS.C4.2	Excavating of materials in box cuts for use in the works, material obtained from: Soft excavation	m3	300		
4	C4.2.4.4 PS.C4.2	Excavating of materials in box cuts for use in the works, material obtained from: Hard excavation (other than by blasting)	m3	20		
5	C1.7.2.2(b) PS.C1.7.2.2	Hauling material to spoil in sites designated by the Contractor: (b) Soil and gravel material	m3	1300		
6	C1.7.2.2(c) PS.C1.7.2.2	Hauling material to spoil in sites designated by the Contractor: (c) Boulders and hard material	m3	200		
7	C1.7.2.1(a)	Hauling material for use in the Works and off-loading it on the site of the Works: (a) Soil, gravel, crushed stone and pavement layer material	m3 * km	320		
8	C1.7.1.1	Loading from stockpile using machines and some hand labour where necessary	m3	320		
		<b><u>Finishing of Banks</u></b>				
9	C4.2.12.1(a)	Finishing the side slopes of Cuttings: (a) In soft material	m2	515		

TOTAL CARRIED TO SECTION 6 SUMMARY: EARTHWORKS

R

**PART 0403 C4.3 EXISTING ROAD MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Saw-cut</u></b>				
1	C4.3.4.1(a)	Saw-cutting existing materials within the following average depth ranges: Asphalt: (a) Up to 50 mm	m	20		

TOTAL CARRIED TO SECTION 6 SUMMARY: EARTHWORKS

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**PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST**

**PART      0404   C4.4 COMMERCIAL MATERIALS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	C4.4.2.1(g)	<b><u>Import Fill Material</u></b> Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G7	m3	20		

**TOTAL CARRIED TO SECTION 6 SUMMARY: EARTHWORKS**

**R**

**PART      0502   C5.2 FILL**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	C5.2.2.1(a)	<b><u>Processing and Compaction</u></b> Fill construction: Normal fill material (G7) in compacted layer thicknesses of 200 mm and less: (a) Compacted to 95 % of MDD	m3	20		
2	C5.2.3	Side-cut to fill compacted to 93 % of MDD in compacted layer thicknesses of 200 mm and less	m3	10		
3	C5.2.11.1	Finishing-off fill slopes	m2	970		

**TOTAL CARRIED TO SECTION 6 SUMMARY: EARTHWORKS**

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**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 6 EARTHWORKS**

PART 0402	C4.2 CUT MATERIALS	
PART 0403	C4.3 EXISTING ROAD MATERIALS	
PART 0404	C4.4 COMMERCIAL MATERIALS	
PART 0502	C5.2 FILL	
TOTAL CARRIED TO FINAL SUMMARY		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST

**SECTION 7 LAYERWORKS****PART 0404 C4.4 COMMERCIAL MATERIALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b>Import Layerworks</b>				
1	C4.4.2.1(b)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G2	m3	620		
2	C4.4.2.1(f)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G5	m3	610		
3	C4.4.2.1(g)	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers: Pavement layer material:Type G7	m3	25		

TOTAL CARRIED TO SECTION 7 SUMMARY: LAYERWORKS

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**PART 0501 C5.1 ROADBED**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.1.1.2	Roadbed construction (150mm - 200mm compacted thickness) and compaction to 95 % of MDD	m3	600		

TOTAL CARRIED TO SECTION 7 SUMMARY: LAYERWORKS

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**PART 0503 C5.3 ROAD PAVEMENT LAYERS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers.	no	1		
		<b>Processing and Compaction</b>				
2	C5.3.2.1(k)	Construction of layers: Upper subbase (G2) layer compacted to 98 % of MDD	m3	620		
3	C5.3.2.1(j)	Construction of layers: Lower subbase (G5) layer compacted to 95 % of MDD	m3	610		
4	C5.3.2.1(b)	Construction of layers: Upper selected subgrade layer (G7) compacted to 95 % of MDD	m3	25		

TOTAL CARRIED TO SECTION 7 SUMMARY: LAYERWORKS

R

**PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST**

**PART      0901    C9.1 ASPHALT LAYERS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
		<b><u>Bond Coat (Tack)</u></b>				
1	C9.1.3.1 PS.C9.1	Application of bond coat: Stable –grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributor	l	6000		
		<b><u>Asphalt Surface</u></b>				
2	C9.1.5.1(e) PS.C9.1	New construction (paver laid) (a) Stone skeletal mix – continuously graded (SA-S14) (40mm layer)	m2	4000		
3	C8.1.1.2	Prime coat: MC -30 cut-back bitumen. 0.8l/m2	l	3200		

**TOTAL CARRIED TO SECTION 7 SUMMARY: LAYERWORKS**

**R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 7    **LAYERWORKS****

PART 0404	C4.4 COMMERCIAL MATERIALS	
PART 0501	C5.1 ROADBED	
PART 0503	C5.3 ROAD PAVEMENT LAYERS	
PART 0901	C9.1 ASPHALT LAYERS	
TOTAL CARRIED TO FINAL SUMMARY		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST

**SECTION 8 ANCILLARY ROAD WORKS****PART 1104 C11.4 ROAD RESTRAINT SYSTEMS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.4.1.1(c) PS C11.4.1.1 ©	Erecting of double-height galvanized guardrail system, including all posts, rails, spacers, fasteners, and fittings at 3.81 m centres, fully compliant with SANS 1350. Rate to include supply, transport, handling, installation, and all associated works for a complete functional system Complete galvanized system compliant to SANS 1350: (c) on CONCRETE post (Drawing 38580)	m	400		
2	C11.4.1.2(b)	Terminal sections for 3,81 guardrails comprising of: (b) Bullnoses to SANS 1350	no	4		
3	C11.4.5.1	"Additional guardrail posts for 3,81 m systems: Concrete"	no	5		
4	C11.4.6.2	Reflective Plastic plates	no	30		
5	C11.4.4.1	Extra over C11.4.1 for horizontally curved guard rails factory bent to a radius of less than 45m	m	20		
6	ggg	Supply and installation of precast concrete bollards, 250 mm diameter x 1200 mm height, manufactured from 25 MPa (250-grade) concrete with a grey exposed aggregate finish (or approved equivalent), installed at 1.2 m centre-to-centre spacing. Rate to include excavation, setting in concrete footing (where required), alignment, cleaning, and all labour, materials, and equipment for a complete installation	no	170		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROAD WORKS

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**PART 1105 C11.5 FENCING**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Wire Mesh Fence - Drawing 38583</u></b>				
1	C11.5.1.3	Diamond mesh	m2	30		
2	C11.5.1.9(a)(i)	Straining posts, stays and anchors:(a) Vertical (Concrete straining post)	no	2		
3	C11.5.2 PS.C11.5.4.1	New gates (Vehicular)	no	1		
4	C11.5.10.1	Disposal of existing fencing materials: Security Fences	m	20		
5	C11.5.3.1(d)	"Moving existing fences:(d) Security fences"	km	0.1		

## PHASE 01 OF THE EXTENSION OF TRK A3607 (GOATHILL RD) IN SANKONTSHE WARD 05\_\_OUTER WEST

Part Continued **PART** 1105 C11.5 FENCING

Item	Clause	Description	Unit	Quantity	Rate	Amount
6	C11.5.4.1(d)	"Dismantling existing fences:(d) Security fences"	km	0.1		
7	C11.5.9	Repairing existing fences : To match existing fencing on site as and when required	km	0.1		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROAD WORKS

R

**PART** 1106 C11.6 ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.6.1.3(a)	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class I retro-reflective material, where the sign board is constructed from: Prepainted galvanized steel plate: (a) Area 0 to 0,5 m2	m2	2		
2	C11.6.3.1	Road sign supports:Steel tubing (75m diameter), Galvanised	m	8		
3	C11.6.5.1	Excavation and backfilling for road sign supports:Excavating soft material and backfilling	m3	2		
4	C11.6.5.4	Extra over item C11.6.5.1 for hard material excavation	m3	2		
5	C13.4.11	Cast in situ concrete for road sign footings as directed by the Engineer (Grade 20/19)	m3	2		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROAD WORKS

R

**PART** 1108 C11.8 LANDSCAPING AND PLANTING PLANTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.8.3.3(a)	Preparing the areas for grassing: (a) Topsoil obtained from within the road reserve or borrow areas	m3	300		
2	C11.8.3.3(b)	Preparing the areas for grassing: (b) Topsoil obtained from commercial sources by the Contractor	m3	20		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROAD WORKS

R

**PART** 1109 C11.9 FINISHING ROAD AND ROAD RESERVE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C11.9.1.2	Single carriageway road	km	0.8		

TOTAL CARRIED TO SECTION 8 SUMMARY: ANCILLARY ROAD WORKS

R

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 8    ANCILLARY ROAD WORKS**

PART	1104	C11.4 ROAD RESTRAINT SYSTEMS	
PART	1105	C11.5 FENCING	
PART	1106	C11.6 ROAD SIGNS	
PART	1108	C11.8 LANDSCAPING AND PLANTING PLANTS	
PART	1109	C11.9 FINISHING ROAD AND ROAD RESERVE	
TOTAL CARRIED TO FINAL SUMMARY			

**SECTION 9 RETAINING WALLS****PART 1206 C12.6 MECH STABILISED FILL AND GABIONS**

<b>Item</b>	<b>Clause</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	C3.3.6.2	Precast concrete chutes (catchwater drain, minimum 300mm wide by 150mm deep as per drawing) Item to include all materials, formation, backfill and installation.	m	25		

**TOTAL CARRIED TO SECTION 9 SUMMARY: RETAINING WALLS****R**

**BILL OF QUANTITIES SECTION SUMMARY**

**SECTION 9    **RETAINING WALLS****

PART	1206	C12.6 MECH STABILISED FILL AND GABIONS	
TOTAL CARRIED TO FINAL SUMMARY			